SUPPLIES
1907

GENERAL
ELECTRIC
COMPANY

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SUPPLIES
1907

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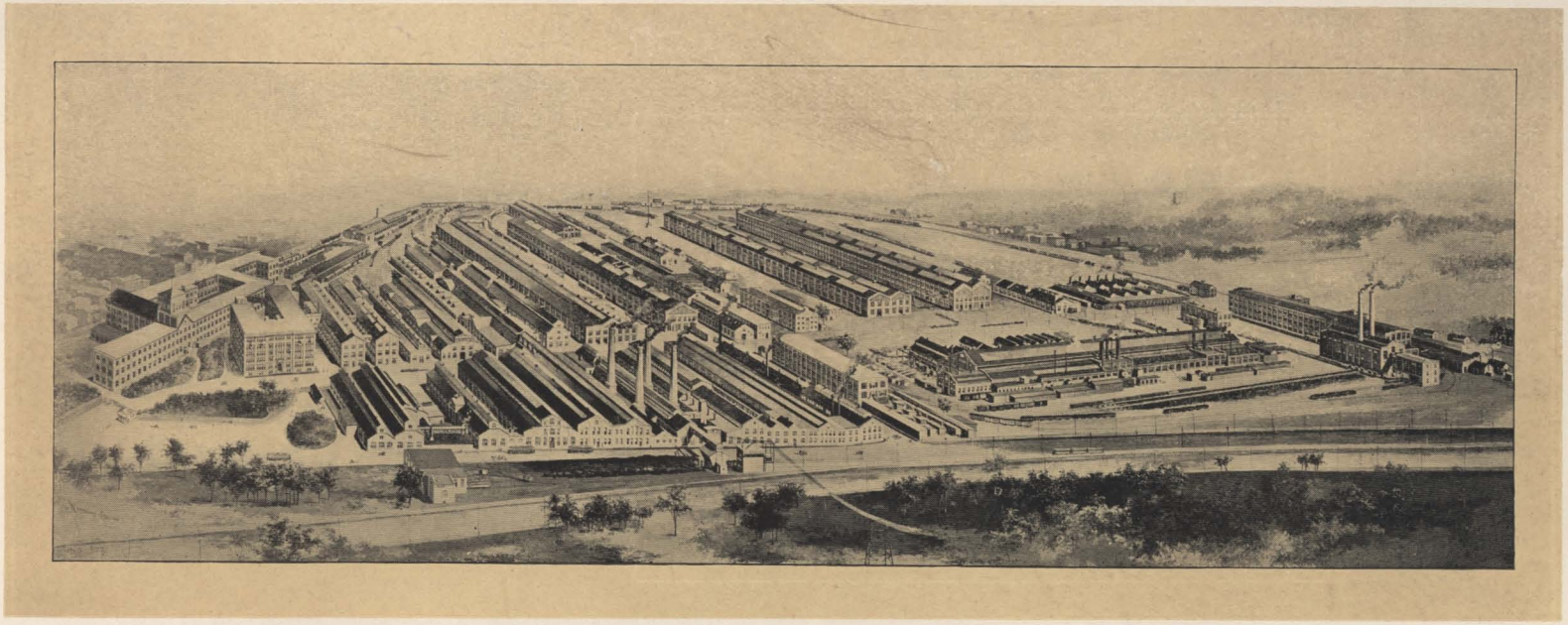


SCHENECTADY WORKS OF THE GENERAL ELECTRIC COMPANY

GENERAL ELECTRIC COMPANY



SUPPLIES

Supply Department
Schenectady, N. Y.

January, 1907 *No. 7603*

ADVICE REGARDING THE PLACING OF ORDERS

1. Orders and correspondence regarding orders must always be sent to our nearest Sales Office.

2. Catalogue numbers should, when possible, be used. When ordering an article which is not standard in every respect, specify that the article is to be "similar to Cat. No. ," and state the modifications which must be made.

3. Do not order—"same as last." If advisable to refer to a previous order give its date, number, and our invoice number, so that delay in locating it may be avoided.

4. An order should contain a specific description of the desired material. Repair parts cannot be supplied without delay unless catalogue numbers are used, or a full description is given of the parts. In every case, it is absolutely imperative that the full name-plate rating as well as the serial number of the machine be given. We are now furnishing parts for machines made at seven factories, each of which has its own series of numbers. The filling of orders for repair parts may be facilitated by mentioning any stamping or lettering appearing on the desired parts.

5. State distinctly how goods are to be shipped, whether by freight, express or mail. If a special route is preferred, say so. Packages weighing from 4 to 10 pounds are shipped by express regardless of instructions on the order. On packages weighing less than 4 pounds the express rate is looked up and shipment is made by express or mail, whichever is cheaper. In order that we may properly send notices of shipments, the post office address should be specified, especially when it differs from the shipping address.

6. Since careful attention, by experienced boxers, is given the packing of goods, especially glassware, and receipts for delivery in good condition are obtained from the carriers, this Company cannot be held responsible for material lost or damaged in transportation. However, all possible precautions will be taken to prevent injury or delay, and shipments will be traced when requested. All claims for breakage should be presented to transportation companies handling the shipment. We will gladly co-operate with our customers in having such claims adjusted by the carriers.

7. All claims must be made within three days of the receipt of goods, and should be accompanied by the package slip that was sent with the shipment.

8. Upon referring to orders, always give the number and date of your order as well as the name of the consignee of goods.

9. Do not return material of any kind without first communicating with the nearest Sales Office and obtaining, first, their approval for returning goods; second, returned apparatus tags giving proper shipping directions.

10. All returned goods should be plainly marked with the name and address of the sender, and proper notice of shipment, with shipping receipt, sent to the Sales Office.

11. Prices are subject to change without notice.

12. All prices, unless otherwise specified, cover delivery f.o.b. point of manufacture. Charge for boxing will be made in accordance with our regular custom. We pay glass manufacturers for casks, and sell same to customers at cost.

Delicate instruments and all foreign shipments require special boxing and packing, for which charge is made.

13. Cable reels are credited at full price when returned in good condition, transportation charges prepaid.

14. Transformer oil, when ordered in sufficient quantities, is shipped in fifty-gallon tanks. These are charged to the customer, but are credited at full price when returned in good condition, transportation charges prepaid.

INTRODUCTION

THE General Electric Company takes pleasure in presenting to its customers for their guidance, its Catalogue of Supplies for the year 1907. This Catalogue supersedes the 1904 Supply Catalogue, and should be used to the exclusion of that Catalogue in the placing of all supply orders.

The following extract from the 1904 Catalogue is of sufficient importance to warrant repetition here: "With a few exceptions, the various supplies are designated by catalogue numbers. These numbers should be used invariably; failure to use them will cause inconvenience and delay not only in the placing but in the filling of orders."

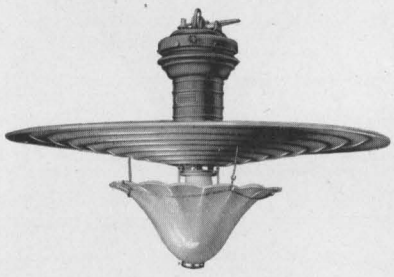
RAILWAY SUPPLIES

This Company's Catalogue, No. 7601, contains a complete list of Railway Supplies. This Catalogue will be furnished on application to the nearest Sales Office, or to the General Office of the Company, Schenectady, N. Y.

ARC LAMPS

When ordering arc lamps or accessories the catalogue numbers should always be specified, as delays are thus avoided. Customers should consider the following points when placing orders:

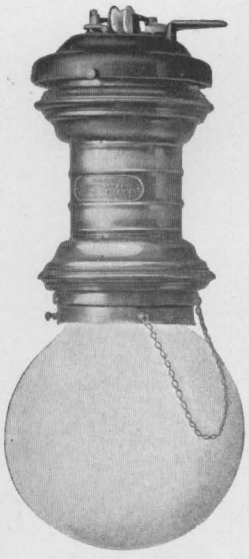
First:	*Series or multiple type of lamp*
Second:	*Alternating or direct current*
Third:	*Open or closed base enclosing globe*
Fourth:	*Voltage of lamp if of multiple type*
Fifth:	*Current consumption and frequency*
Sixth:	*Length of upper carbon if alternating current type*
Seventh:	*Style of outer globe or reflector*
Eighth:	*Catalogue number of lamp*
Ninth:	*Finish of casing*
Tenth:	*Catalogue number of casing*
Eleventh:	*Number of outer globe or reflector*
Twelfth:	*Clear or light opal enclosing and outer globes*



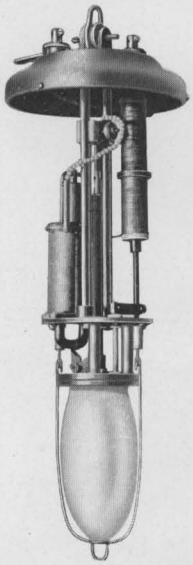
Arc lamp equipped with concentric light diffuser, used extensively for illumination of stores and other large areas where an even distribution of a good quality of light is desired

DIRECT CURRENT ARC LAMPS

For 110-125 Volt Direct Current Multiple Circuits Provided with **Closed** Base Enclosing Globes



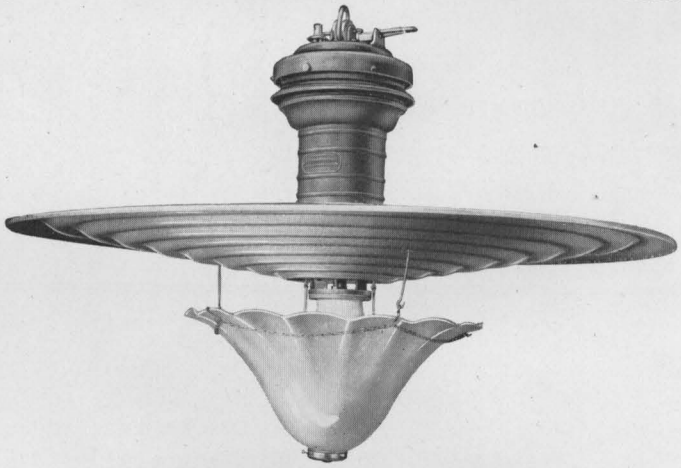
Lamp, Cat. No 9525, with Casing, Cat. No. 3564, and Closed Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9525



Lamp, Cat. No. 9525, with Casing, Cat. No. 3545 and Reflector, Cat. No. 13261



Arc Lamp Complete with Concentric Diffuser Cat. No. 27571 Lower Shade No. 2855 and Adapter No. 37567

Table I

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
5	12	$\frac{1}{2}$	13261	9525	3545	Black enamel	46
3½	12	$\frac{3}{8}$	13261	9528	3559	Streaked oxidized copper	46
5	12	$\frac{1}{2}$	5	9525	‡3564	Black enamel	46
3½	12	$\frac{3}{8}$	5	9528	‡3567	Streaked oxidized copper	46

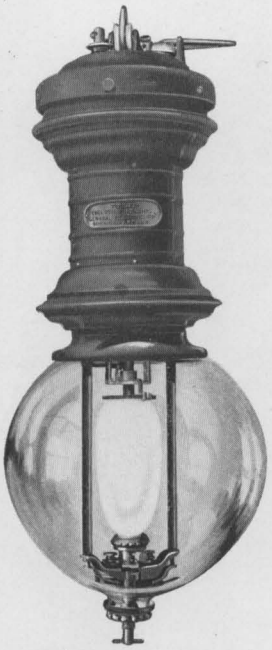
†Does not necessarily refer to the material of which the casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

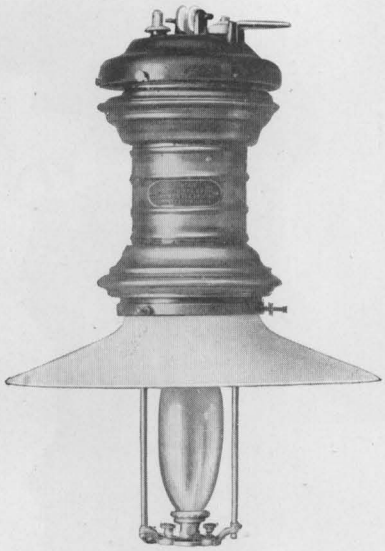
Approximate shipping weight of lamp with casing, is 60 lbs.

DIRECT CURRENT ARC LAMPS

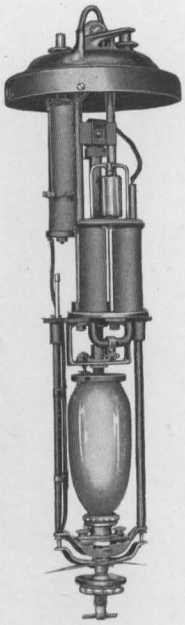
For 110-125 Volt Direct Current Multiple Circuits Provided with **Open** Base Enclosing Globes



Lamp, Cat. No. 9526, Casing Cat. No. 3516, with Open Base Outer Globe



Lamp, Cat. No. 9527 with Casing Cat. No. 3545 and Reflector Cat. No. 13261



INTERIOR VIEW OF LAMP Cat. No. 9526

Table II

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
5	12	$\frac{1}{2}$	1	9526	3516	Black enamel	3
$3\frac{1}{4}$	12	$\frac{3}{8}$	1	9529	3558	Streaked oxidized copper	3
5	12	$\frac{1}{2}$	13261	9527	3545	Black enamel	3
$3\frac{1}{4}$	12	$\frac{3}{8}$	13261	9530	3559	Streaked oxidized copper	3
5	12	$\frac{1}{2}$	5	9527	‡3564	Black enamel	3
$3\frac{1}{4}$	12	$\frac{3}{8}$	5	9530	‡3567	Streaked oxidized copper	3

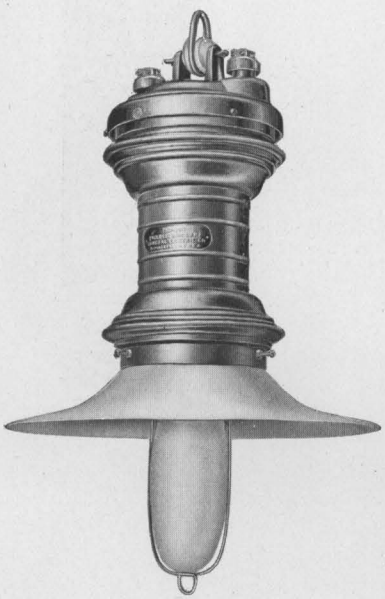
†Does not necessarily refer to the material of which the casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

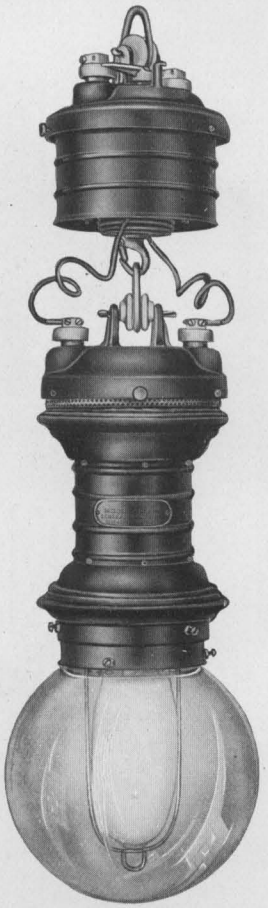
Approximate shipping weight of lamp with casing, is 60 lbs.

DIRECT CURRENT ARC LAMPS

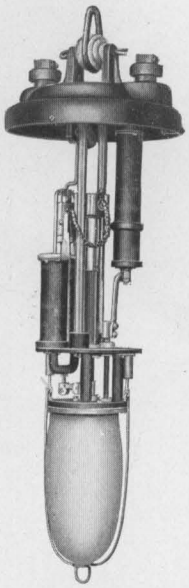
For Power Circuits, Two in Series on 220 Volts or Five in Series on 550 Volts
Provided with **Closed** Base Enclosing Globes



Lamp, Cat. No. 9535, with Casing, Cat. No. 3545 and Reflector, Cat. No. 13261



Lamp, Cat. No. 9535, with Casing, Cat. No. 3545, No. 5 Closed Base Outer Globe, No. 45 Closed Base Enclosing Globe and External Cut-out and Resistance



INTERIOR VIEW OF LAMP
Cat. No. 9535

Table III

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
5	12	½	13261 or 23979	9535	3545	Black enamel	46
					3563	Black oxidized copper	46
					3559	Streaked oxidized copper	46
5	12	½	5	9535	‡3564	Black enamel	46
					‡3565	Black oxidized copper	46
					‡3567	Streaked oxidized copper	46

†Does not necessarily refer to the material of which casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

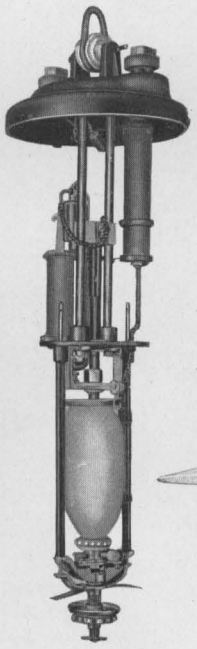
Approximate shipping weight of lamp with casing, is 60 lbs.

DIRECT CURRENT ARC LAMPS

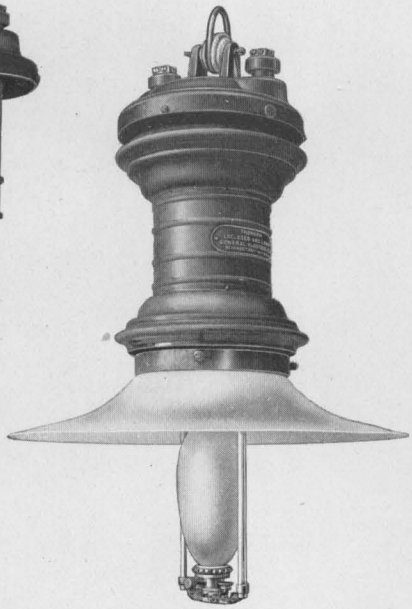
For Power Circuits, Two in Series on 220 Volts, or Five in Series on 550 Volts Provided with **Open** Base Enclosing Globes



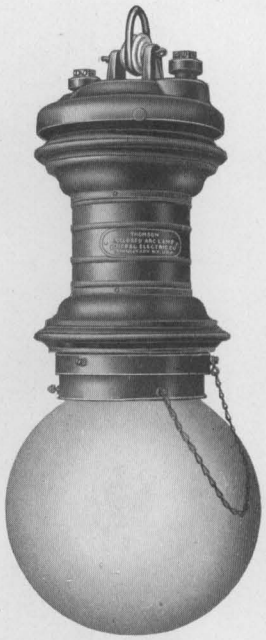
Lamp, Cat. No. 9536, with Casing, Cat. No. 3516 with Open Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9536



Lamp, Cat. No. 9537, with Casing, Cat. No. 3545 and Reflector Cat. No. 13261



Lamp, Cat. No. 9537, with Casing, Cat. No. 3564 and Closed Base Outer Globe

Table IV

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
5	12	½	1	9536	3516	Black enamel	3
					3562	Black oxidized copper	3
					3558	Streaked oxidized copper	3
5	12	½	13261 or 23979	9537	3545	Black enamel	3
					3563	Black oxidized copper	3
					3559	Streaked oxidized copper	3
5	12	½	5	9537	‡3564	Black enamel	3
					‡3565	Black oxidized copper	3
					‡3567	Streaked oxidized copper	3

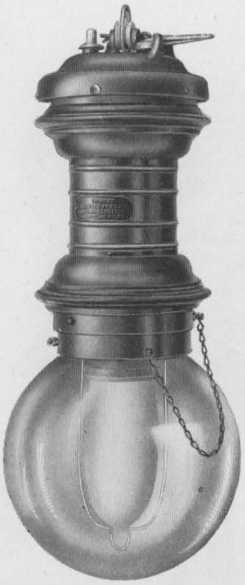
†Does not necessarily refer to the material of which the casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

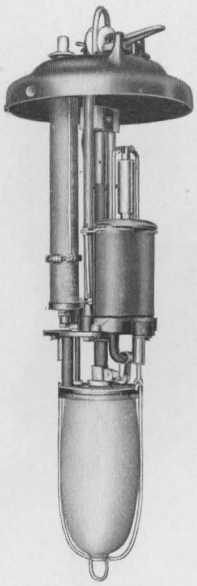
Approximate shipping weight of lamp with casing, is 60 lbs.

DIRECT CURRENT ARC LAMPS

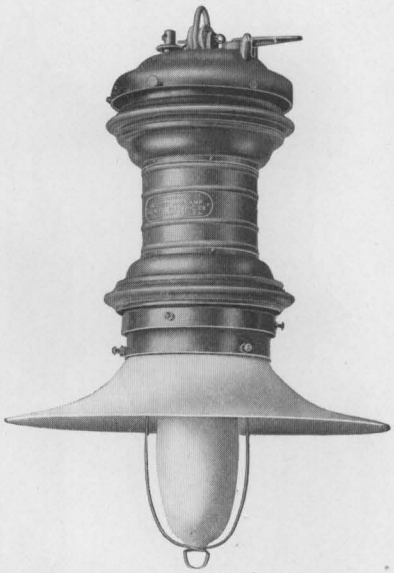
Edgewise Wound for 220 Volt Direct Current Multiple Circuits Provided with **Closed** Base Enclosing Globes



Lamp, Cat. No. 9532, with Casing, Cat. No. 3564 and Closed Base Outer Globe



INTERIOR VIEW OF LAMP
Cat. No. 9532



Lamp, Cat. No. 9532 with Casing, Cat. No. 3545, and Reflector, Cat. No. 13261

Table V

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
3	12	½	13261	9532	3545	Black enamel	36
					3559	Streaked oxidized copper	
3	12	½	5	9532	‡3564	Black enamel	36
					‡3567	Streaked oxidized copper	

†Does not necessarily refer to the material of which the casing is made.
‡Inclusive of a supporting ring, with chain, screws and nuts.

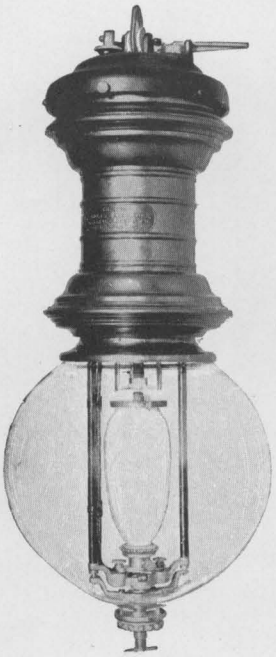
In ordering always specify Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

NOTE: The above lamps are equipped with ornamental type casings instead of plain type casings as furnished heretofore. Plain type casings may be obtained if desired.

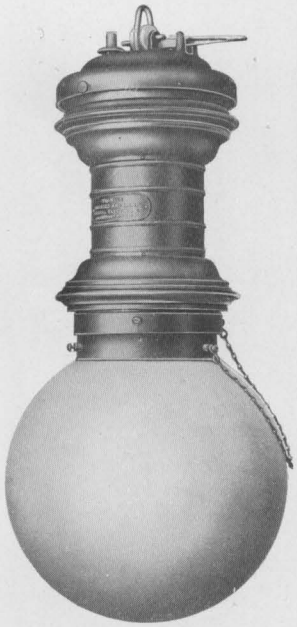
Approximate shipping weight of lamp with casing, is 60 lbs.

DIRECT CURRENT ARC LAMPS

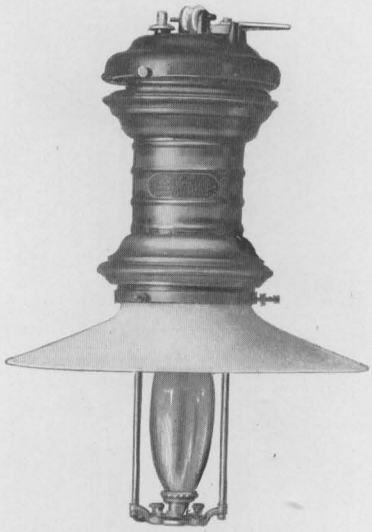
Edgewise Wound for 220 Volt Direct Current Multiple Circuits Provided with **Open** Base Enclosing Globes



Lamp, Cat. No. 9533, with Casing, Cat. No. 3516 and Open Base Outer Globe



Lamp, Cat. No. 9534 and Casing, Cat. No. 3564 with Closed Base Outer Globe



Lamp, Cat No. 9534, with Casing, Cat. No. 3545 and Reflector Cat. No. 13261

Table VI

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
3	12	½	1	9533	3516	Black enamel	3
					3562	Black oxidized copper	
					3558	Streaked oxidized copper	
3	12	½	13261	9534	3545	Black enamel	3
					3563	Black oxidized copper	
					3559	Streaked oxidized copper	
3	12	½	5	9534	‡3564	Black enamel	3
					‡3565	Black oxidized copper	
					‡3567	Streaked oxidized copper	

†Does not necessarily refer to material of which the casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

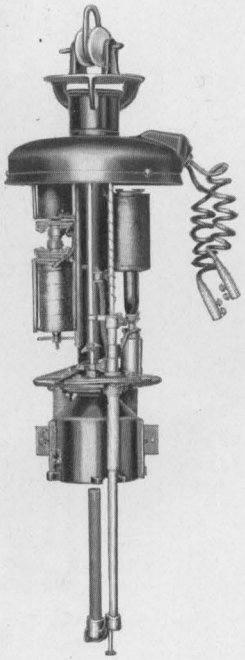
In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

Approximate shipping weight of lamp with casing, is 60 lbs.

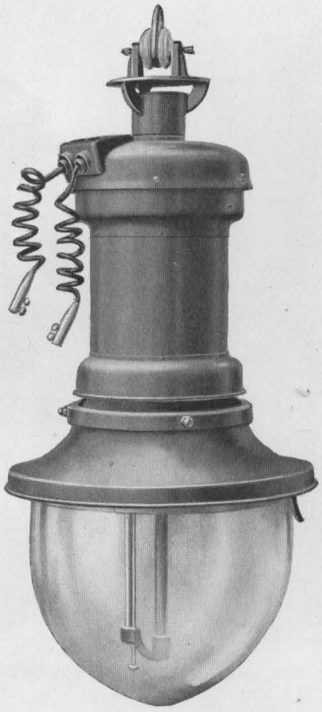
DIRECT CURRENT ARC LAMPS

Luminous Arc Lamp

For 4 Ampere Series Circuits



Cat. No. 9565 with Stationary Upper Electrode



Cat. No. 9565. Casing Cat. No. 43266 and No. 14 Open Base Outer Globe with Stationary Upper Electrode

Amps.	Style of Outer Globe	Cat. No.		†Casing Finish
		Lamp	Casing	
4	14	9565	*43266	Black oxidized copper

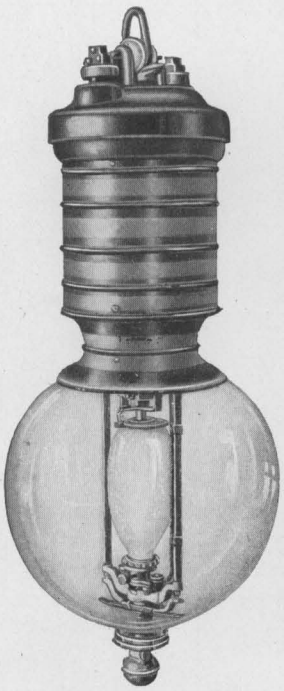
*Includes canopy, globe holder and ash pan.
†Does not necessarily refer to the material of which the casing is made.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

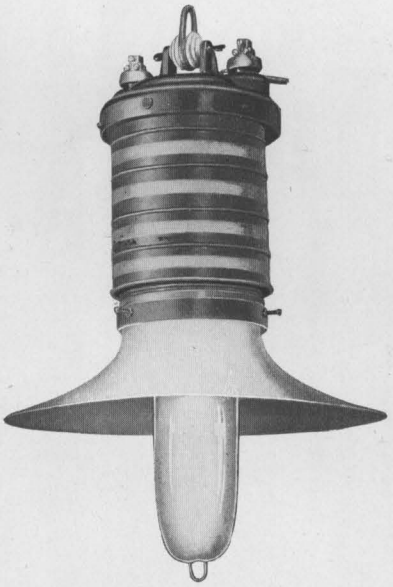
Approximate shipping weight of lamp with casing, is 75 lbs.

DIRECT CURRENT ARC LAMPS

For 6.6 Ampere Series Circuits



Cat. Nos. 8584 and 3597 with Open Base Outer Globe



Cat. Nos. 8585 and 3599 with Reflector, Cat. No. 13261

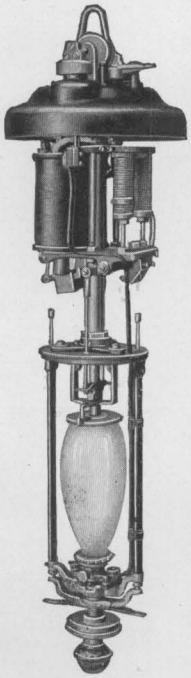


Cat. Nos. 8585 and 27390 with Closed Base Outer Globe

With **Open** Base Enclosing Globes and Screw Top Casings

Table VII

Amp.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Encl. Globe No.
	Length	Diam.		Lamp	Casing		
6.6	12	½	10	8584	3596	Black oxidized copper	3
6.6	12	½	10	8584	3597	Streaked oxidized copper	3



Cat. No. 8584

With **Closed** Base Enclosing Globes and Bayonet Joint Casings

Table VIII

6.6	12	½	13261	8585	3598	Black oxidized copper	46
					3599	Streaked oxidized copper	46
6.6	12	½	11	8585	‡27389	Black oxidized copper	46
					‡27390	Streaked oxidized copper	46

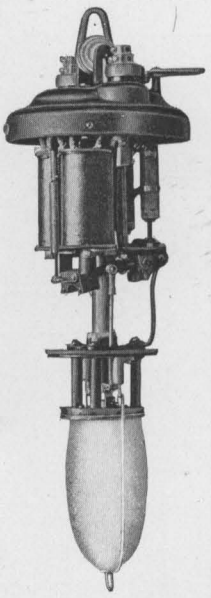
† Does not necessarily refer to the material of which casing is made.

‡ Inclusive of a supporting ring with chain, screws and nuts.

The open base enclosing globe type lamp, Catalogue Number 8584, is designed especially for outdoor use and should never be installed for interior work.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector desired.

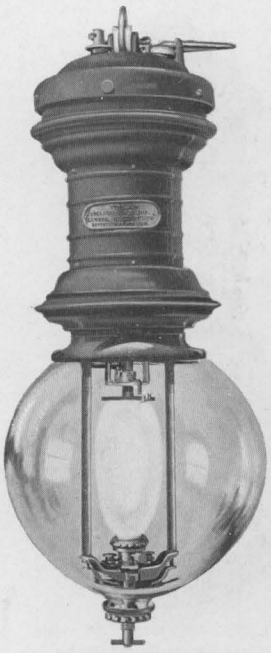
Approximate shipping weight of lamp with casing, is 60 lbs.



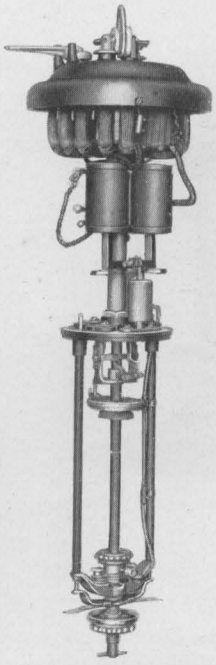
Cat. No. 8585

ALTERNATING CURRENT ARC LAMPS

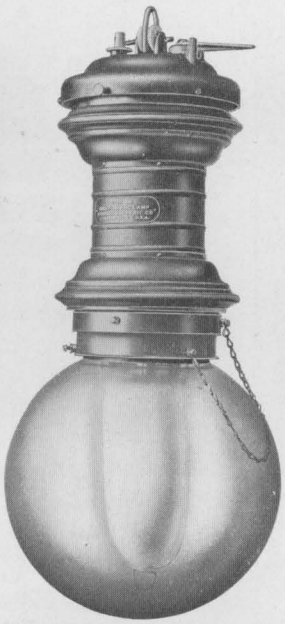
For 220 Volt Alternating Current Multiple Circuits Compensator Enclosed Arc Lamp Interchangeable Frequency 50-140 Cycles



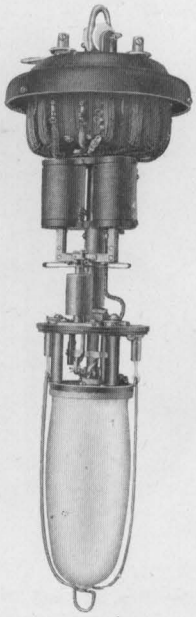
Lamp, Cat. No. 9548 and Casing, Cat. No. 3516, with Open Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9548



Lamp, Cat. No. 9564 and Casing, Cat. No. 3564, with Closed Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9564

WITH OPEN BASE ENCLOSING GLOBES

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
6	12	½	10	9548	3516	Black enamel	7
					3562	Black oxidized copper	
					3558	Streaked oxidized copper	
6	12	½	13261	9549	3545	Black enamel	7
					3563	Black oxidized copper	
					3559	Streaked oxidized copper	
6	12	½	9	9549	‡3564	Black enamel	7
					‡3565	Black oxidized copper	
					‡3567	Streaked oxidized copper	

WITH CLOSED BASE ENCLOSING GLOBES

6	12	½	13261	9564	3545	Black enamel	49
					3563	Black oxidized copper	
					3559	Streaked oxidized copper	
6	12	½	9	9564	‡3564	Black enamel	49
					‡3565	Black oxidized copper	
					‡3567	Streaked oxidized copper	

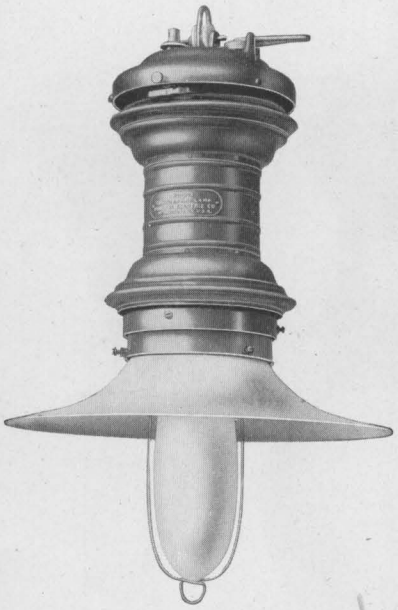
†Does not necessarily refer to material of which casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

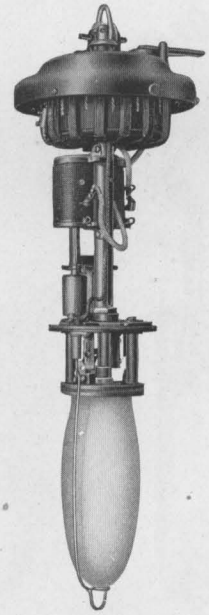
Approximate shipping weight of lamp with casing, is 60 lbs.

ALTERNATING CURRENT ARC LAMPS

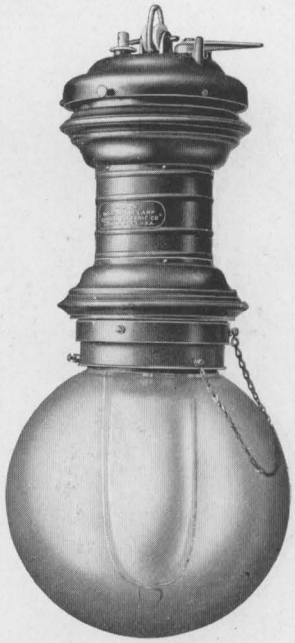
For 100-120 Volt Alternating Current Multiple Circuits Provided with **Closed** Base Enclosing Globes



Lamp, Cat. No. 9182, with Casing, Cat. No. 3545 and Reflector, Cat. No. 13261



INTERIOR VIEW OF LAMP Cat. No. 9182



Lamp, Cat. No. 9182, with Casing, Cat. No. 3564 and Closed Base Outer Globe

Table IX

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
4	12	$\frac{7}{16}$	13261	9099	3545	Black enamel	49
6	12	$\frac{1}{2}$		9182	3563	Black oxidized copper	
$7\frac{1}{2}$	12	$\frac{1}{2}$		9524	3559	Streaked oxidized copper	
4	12	$\frac{7}{16}$	9	9099	‡3564	Black enamel	49
6	12	$\frac{1}{2}$		9182	‡3565	Black oxidized copper	
$7\frac{1}{2}$	12	$\frac{1}{2}$		9524	‡3567	Streaked oxidized copper	

†Does not necessarily refer to the material of which casing is made.
‡Inclusive of a supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

NOTE: The above lamps are equipped with ornamental type casings instead of plain casings as furnished heretofore. Plain type casings may be obtained if desired.

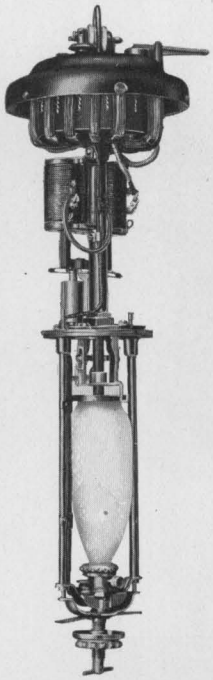
Approximate shipping weight of lamp with casing, is 60 lbs.

ALTERNATING CURRENT ARC LAMPS

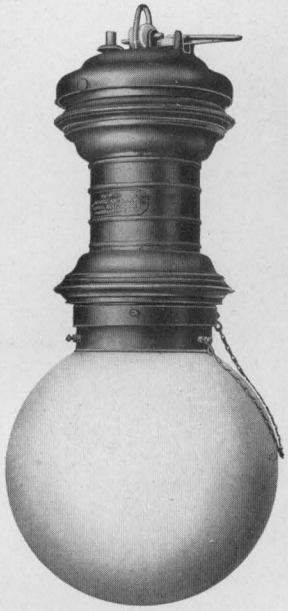
For 100-120 Volt Alternating Current Multiple Circuits
Provided with **Open** Base Enclosing Globes



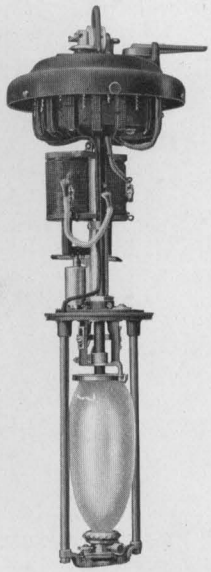
Lamp. Cat. No. 9090, and Casing, Cat. No. 3562 with Open Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9060



Lamp, Cat. No. 9096, and Casing, Cat. No. 3564 with Closed Base Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 9096

Table X

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter		Lamp	Casing		
4	12	$\frac{7}{16}$	10	9060	3516	Black enamel	7
6	12	$\frac{1}{2}$	10	9090	3562	Black oxidized copper	7
$7\frac{1}{2}$	12	$\frac{1}{2}$	10	9091	3558	Streaked oxidized copper	7
4	12	$\frac{7}{16}$	13261	9095	3545	Black enamel	7
6	12	$\frac{1}{2}$	13261	9096	3563	Black oxidized copper	7
$7\frac{1}{2}$	12	$\frac{1}{2}$	13261	9098	3559	Streaked oxidized copper	7
4	12	$\frac{7}{16}$	9	9095	‡3564	Black enamel	7
6	12	$\frac{1}{2}$	9	9096	‡3565	Black oxidized copper	7
$7\frac{1}{2}$	12	$\frac{1}{2}$	9	9098	‡3567	Streaked oxidized copper	7

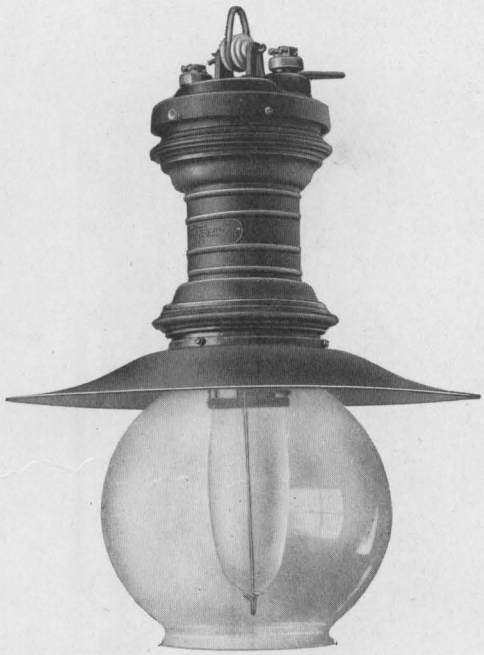
†Does not necessarily refer to the material of which casing is made.
‡Inclusive of supporting ring with chain, screws and nuts.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

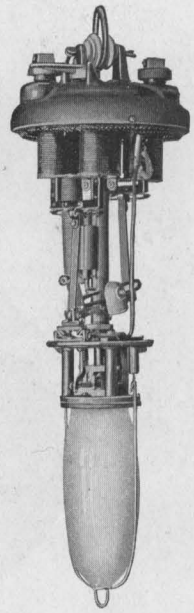
Approximate shipping weight of lamp with casing, is 60 lbs.

ALTERNATING CURRENT ARC LAMP

For Series Circuits
Provided with **Closed** Base Enclosing Globes



Lamp, Cat. No. 3786, and Casing, Cat. No. 3545 with Reflector, Cat. No. 23979, and Stationary Outer Globe



INTERIOR VIEW OF LAMP Cat. No. 3786

Table XI

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cycles	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter			Lamp	Casing		
6.6	12	½	8 Outer and 23979 Reflector	60	3786	3545	Black enamel	39
7.5				60	3787			
6.6	12	½	8 Outer and 23979 Reflector	60/125	8447	3563	Black oxidized copper	39
7.5				60/125	8449			

†Does not necessarily refer to the material of which casing is made.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

NOTE: The above lamps are equipped with ornamental type casings instead of plain type casings, as furnished heretofore. Plain type casings may be obtained if desired.

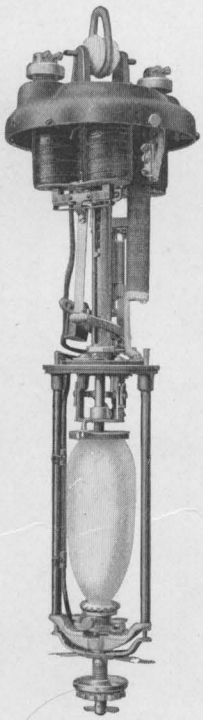
Approximate shipping weight of lamp with casing is 60 lbs.

ALTERNATING CURRENT ARC LAMPS

For Series Circuits, Provided with **Open** Base Enclosing Globes



Lamp, Cat. No. 8587, with Casing, Cat. No 3516 and Reflector, Cat. No. 2856



INTERIOR VIEW OF LAMP Cat. No. 8587

Table XII

Amps.	Carbon Dimensions in Inches		Style of Outer Globe or Reflector	Cycles	Cat. No.		†Casing Finish	Enclosing Globe No.
	Length	Diameter			Lamp	Casing		
6.6	12	½	1 Outer and Reflector	60	8587	3516	Black enamel	7
7.5				60	8588			
6.6	12	½	1 Outer and Reflector	60/125	8589	3562	Black oxidized copper	
7.5				60/125	9059			

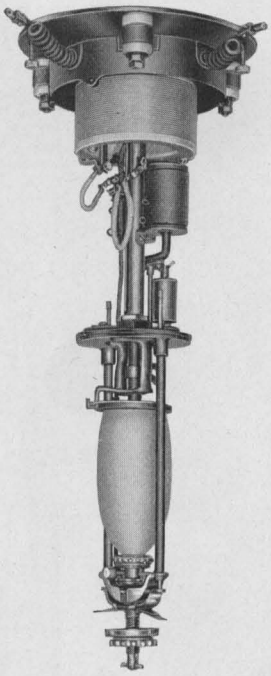
†Does not necessarily refer to the material of which casing is made.

In ordering always specify the Catalogue Numbers of the lamp and the casing, and also the kind of enclosing globe and outer globe or reflector required.

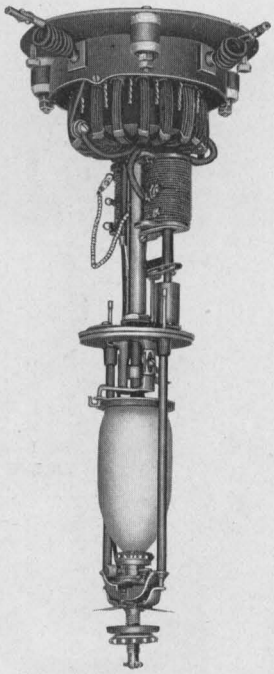
Approximate shipping weight of lamp with casing is 65 lbs.

DIRECT AND ALTERNATING CURRENT ARC LAMPS

For Use with Diffuser Ceilings
Provided with **Open** Base Enclosing Globes



INTERIOR VIEW OF LAMP
Cat. No. 9542



INTERIOR VIEW OF LAMP
Cat. No. 9541

Direct Current Arc Lamps, for Use on 110-125 Volt, Direct Current, Multiple Circuits

Amps.	Carbon Dimensions in Inches		Style of Lower Shade	Catalogue No. Lamp	Enclosing Globe No.
	Length	Diameter			
6–6½–7	12	½	36847	9542	3½

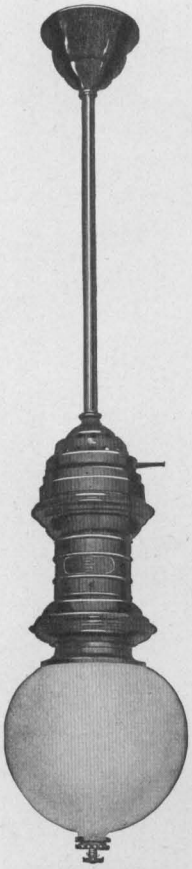
Alternating Current Arc Lamps, for Use on 100-120 Volt, Alternating Current, Multiple Circuits

Amps.	Carbon Dimensions in Inches		Style of Lower Shade	Catalogue No. Lamp	Enclosing Globe No.
	Length	Diameter			
7½–8–9	9½	½	36847	9541	3½

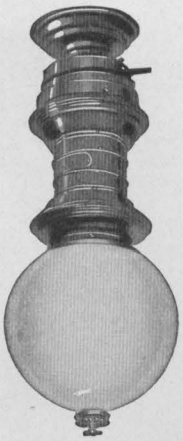
NOTE: Unless otherwise specified direct current lamps will be adjusted for 6½ amperes, alternating current lamps for 8 amperes.

Approximate shipping weight of lamp is 50 lbs.

CEILING SUSPENSIONS



ARC LAMP WITH CEILING SUSPENSION



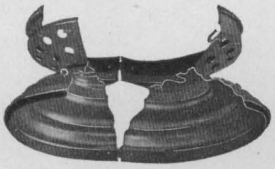
ARC LAMP WITH CEILING CANOPY



UPPER CANOPY



COLLAR FOR LAMP

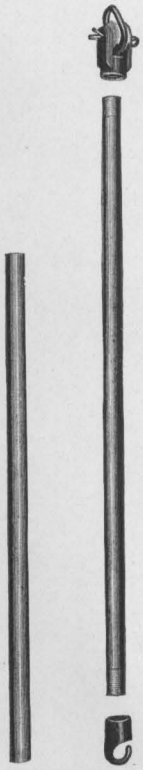


SPLIT CANOPY WITH COLLAR





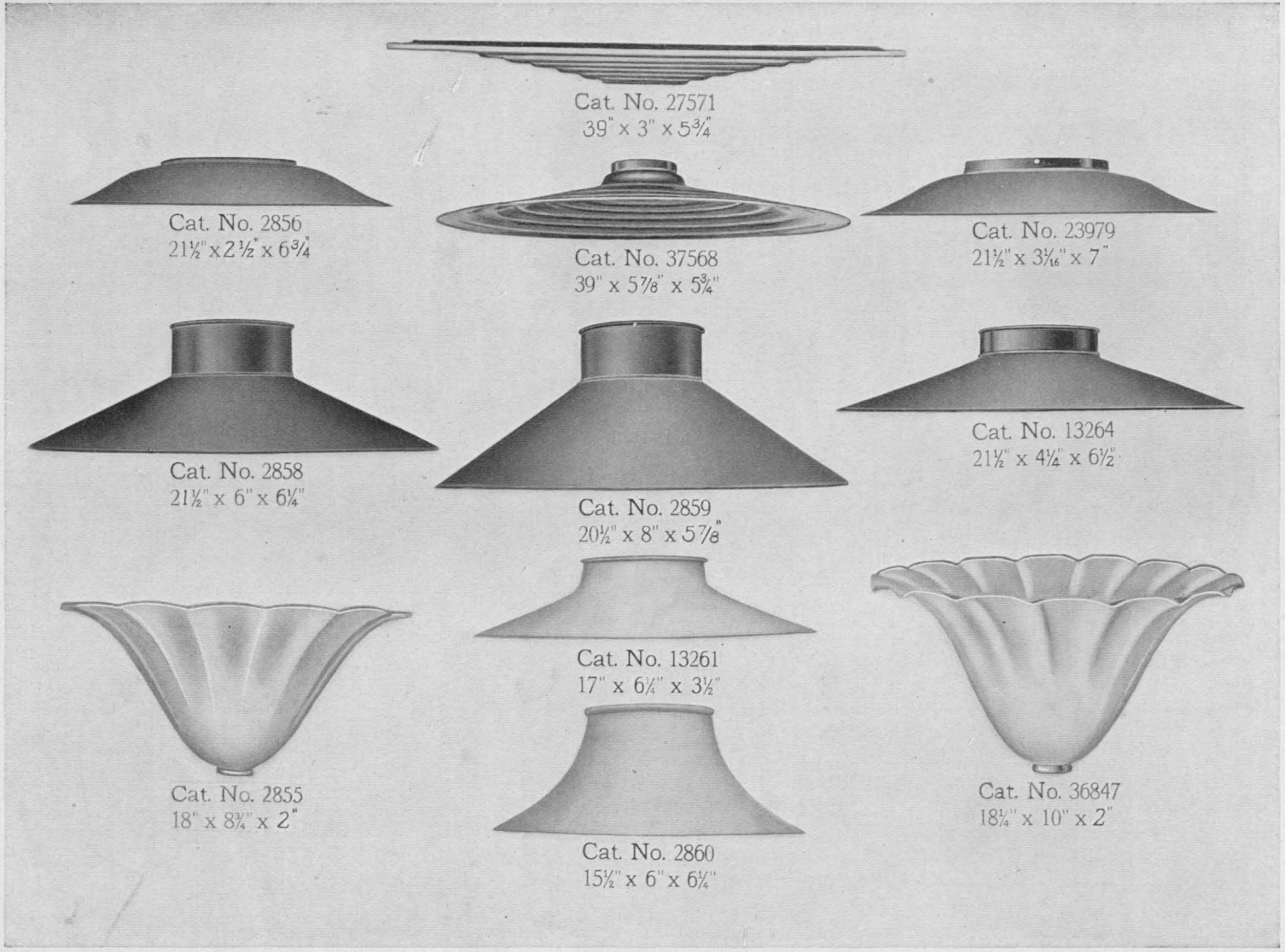
LOWER CANOPY



IRON PIPE SUSPENSION with Hook and Outer Tube

Complete Ceiling Canopies and Suspensions, and Separate Parts

Cat. No.	Description
24484	Black Enamel ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 2 feet.
24493	Black Oxidized ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 2 feet.
24485	Ground Brass ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 2 feet.
24486	Antique Copper finish ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 2 feet
24487	Black Enamel ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 3 feet.
24494	Black Oxidized ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 3 feet.
24488	Ground Brass ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 3 feet.
24489	Antique Copper finish ceiling suspension, complete, with upper and lower canopies and collar for lamp top. Length 3 feet.
24490	Black Enamel Split canopy with collar for lamp top.
24495	Black Oxidized " " " " " " "
24491	Ground Brass " " " " " " "
24492	Antique Copper " " " " " " "



REFLECTORS AND DIFFUSERS FOR ENCLOSED ARC LAMPS

CEILING BOARDS FOR MULTIPLE ARC LAMPS

The General Electric Porcelain Ceiling Boards shown in the accompanying illustrations have insulated suspension hooks, and will be found more convenient than any other arrangement of suspension board and cut-out, as the fuses are very easy to renew, and their renewal requires no special knowledge or tools.



PORCELAIN CEILING BOARD
Cat. No. 36850
For Edison Fuse Plugs, with Ceiling Switch, Cat. No. 30342 and Wooden Sub-Base, (not included), Cat. No 37634
(Fuse Plugs Not Included)

A plain ceiling board (Cat. No. 2046), without receptacles for fuse plugs or enclosed fuses, can be furnished if desired.

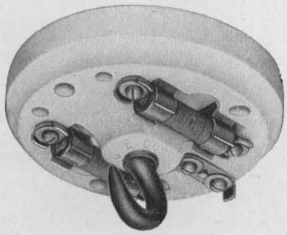
The fused ceiling boards afford a better protection to the individual lamp than the main cut-out. They also render each lamp in the circuit independent of the others.

The hook from which the lamp hangs is supported by a spiral spring mounted in a recess in the porcelain base. This spring



PORCELAIN CEILING BOARD
Cat. No. 2865
For Edison Fuse Plugs, with Wooden Sub-Base (not included), Cat No 51856
(Fuse Plugs Not Included)

reduces to a minimum any vibration to which the lamp may be subjected, thus preventing injury to the lamp.



PORCELAIN CEILING BOARD FOR ENCLOSED FUSES
Cat. No. 36844
(Enclosed Fuses Not Included)

REFLECTORS

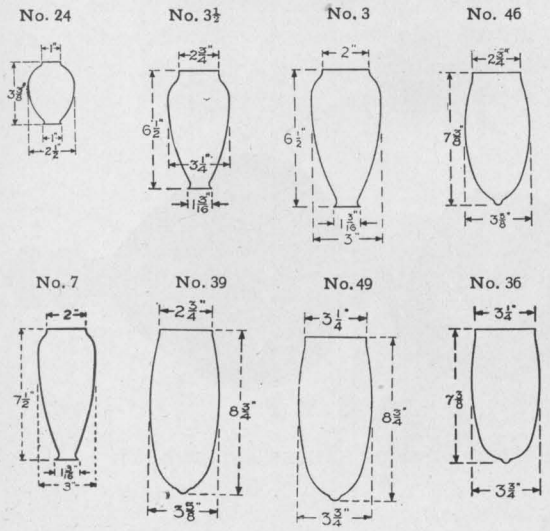
Cat. No.	Description
13261	Flat opal reflector for use on single globe lamps.
2860	Deep opal reflector; interchangeable with Cat. No. 13261.
13264	Metal reflector; interchangeable with Catalogue Nos. 13261 and 2860.
2856	Metal reflector for double globe lamps.
23979	Metal reflector for use on single globe lamps with or without outer globe.
2858	Mirror reflector (6 in. deep).
2859	Mirror reflector (8 in. deep).

CONCENTRIC DIFFUSERS, SHADES AND ACCESSORIES

Cat. No.	Description
27571	Concentric Light Diffuser (steel) suspended from single globe casings. Takes shade Cat. No. 2855.
37568	Inverted Concentric Diffuser (steel) suspended from single globe casings. Takes open or closed base outer globe.
2855	Light opal shade 8¾ in. deep for concentric diffusers. See also Cat. No. 36847.
36847	Light opal shade 10 in. deep, for use with ceiling type of lamp. Should be used with 12 in. carbon A. C. multiple upper lamps equipped with concentric diffusers.
37567	Shade suspension complete for adapting concentric light diffuser combination to single globe, closed base enclosing globe lamps.

HEAT RESISTING ENCLOSING GLOBES

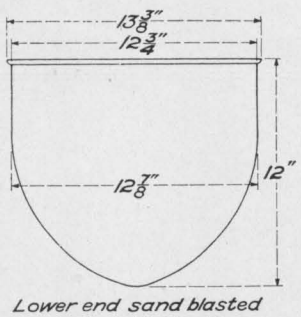
Enclosing globes furnished with General Electric lamps are blown from glass having special heat-resisting qualities. This glass



will not soften with the intense heat of the arc and consequently the carbon particles which may be projected against the globes do not adhere or become embedded as they do with other globes.

Globes are furnished in dense opal, light opal or clear glass, as desired. For interior illumination the light opal globe is generally adopted, as it absorbs some of the superfluous violet rays of the light without seriously decreasing the illuminating power. When a very even distribution of light is essential the dense opal globe should be used. For outdoor lighting both the clear and light opal globes are employed, although the light opal globe is preferable on account of the superior light distribution secured.

No. 14

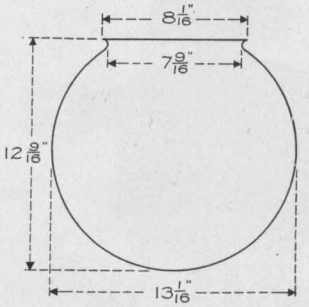


Lower end sand blasted to an indefinite line

OUTER GLOBES

Outer globes can also be furnished in dense opal, light opal or clear glass, according to requirements.

No. 11



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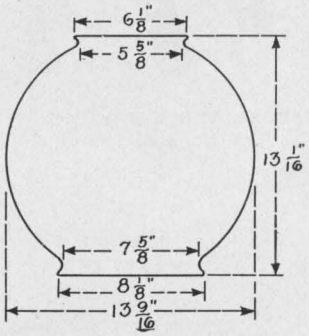

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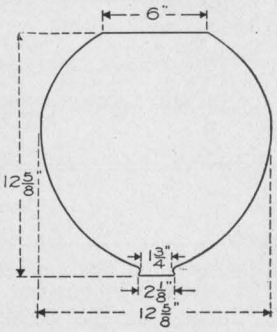

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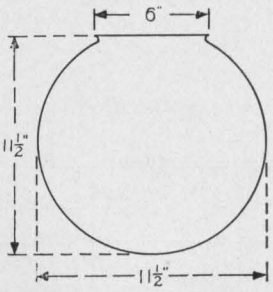

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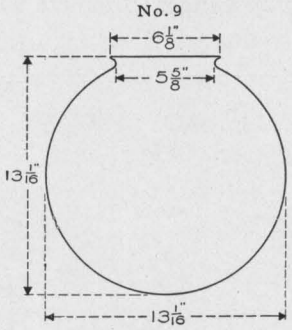

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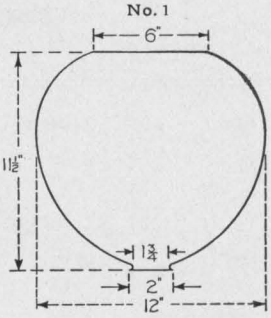
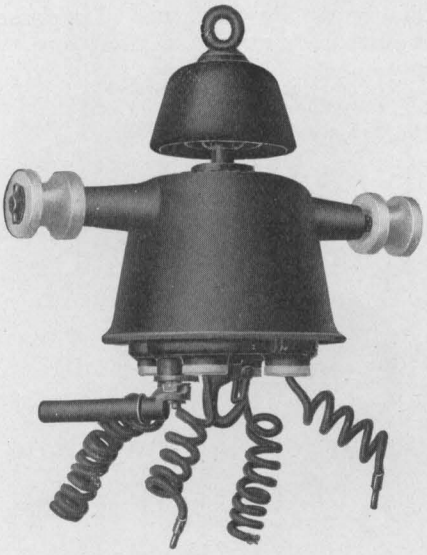
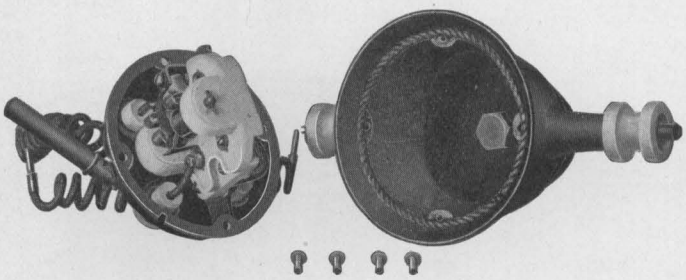


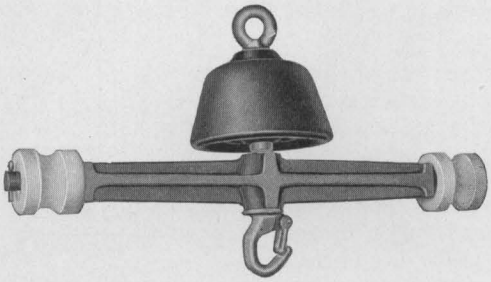
ABSOLUTE CUT-OUT AND HANGER FOR ARC LAMPS



HANGER AND CUT-OUT
Cat No. 42185



INTERIOR VIEW OF HANGER AND CUT-OUT
Cat. No. 42185



ARC LAMP HANGER WITH CROSS ARM
Cat. No. 37908

	Cat. No.	Description		Approximate Shipping Weight, Lbs.
	42185	Absolute cut-out with moulded insulator, Cat. No. 32949		20
	37908	Arc lamp hanger, complete with cross-arm		6

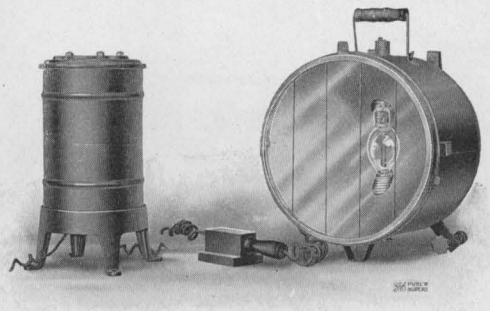
THE ARC HEADLIGHT

As indicated by the accompanying illustration, the General Electric arc headlight for street railway interurban service is attractive in design, of convenient dimensions, and can be easily hung on supporting hooks at either end of the car. A suitable plug switch is provided for easily making the electrical connection when changing the lamp from one end of the car to the other. The lamp is designed to operate with a current varying from 3 to 4 amperes and at a potential of 80 volts. It can be connected across a 500 volt trolley circuit, with either a dead resistance, or preferably the incandescent lamps used for lighting the interior of the car, in series with it.

The lamp is of the well-known multiple form, and exceptionally simple in construction, there being but one moving element, namely, the clutch mechanism.

Adjustment of the arc is obtained by means of a stop which limits the upper movement of the clutch. This device also causes the carbon to become firmly locked in the clutch, preventing the jar of the car from causing it to slip. In operation, advantage is taken of occasional breaks in the trolley circuit to cause the lamp to feed.

A water-tight case protects the resistance, and it can, therefore, be safely installed in any convenient place either underneath the car or in the vestibule.



ARC HEADLIGHT AND RHEOSTAT

Amps.	Carbon Dimensions in Inches		Description	Catalogue No.	Enclosing Globe No.
	Upper	Lower			
4	6 by $\frac{3}{8}$ inch	4 by $\frac{3}{8}$ inch	Headlight Steadying Resistance Screen	36694 36695 36696	24

Approximate shipping weight of headlight with resistance and screens is 110 lbs.

ARC LAMPS FOR BLUE PRINTING

An extremely useful application of the arc lamp is in the making of blue prints, such as are used in factories, machine shops, etc., as it avoids the delays occasioned by lack of sufficient natural light during cloudy days and in the evenings. In the accompanying illustration will be seen a view of a four arc frame, specially designed for this class of work.



CYLINDRICAL BLUE PRINTING FRAME

A curved glass plate forms the side of the frame against which the tracings and blueprint paper are placed. Canvas curtains, raised and lowered by aid of a foot lever, hold the tracing and paper firmly in position against the glass, insuring a good contact between the tracing and the blue printing paper. The electric current is automatically thrown on to, or cut off from, the lamps by the operation of the foot lever, thereby avoiding any waste. Portability and lightness of construction, without the sacrifice of strength and durability, are obtained by building the frame of angle iron and sheet steel.

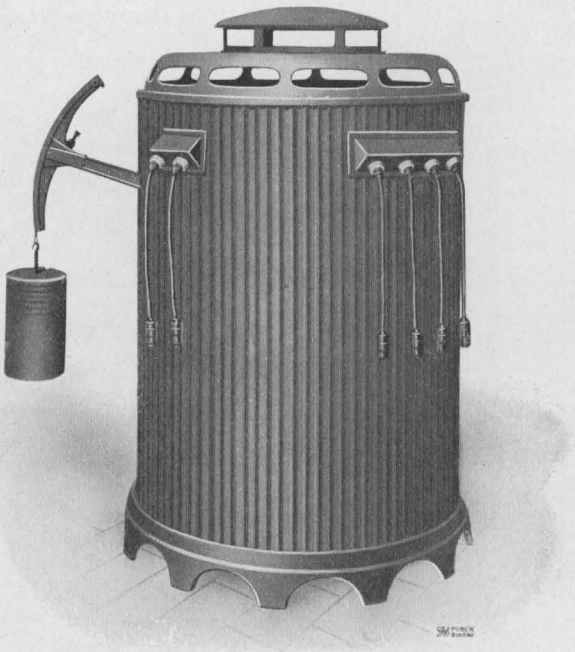
Lamps can be furnished for either direct or alternating current service, and as they are properly adjusted and tested before leaving the factory, no attention will be necessary with the exception of cleaning the globes and trimming.

A large number of these outfits are utilized by the General Electric Company in the Blue Printing Department which turns out about 100,000 blue prints per month.

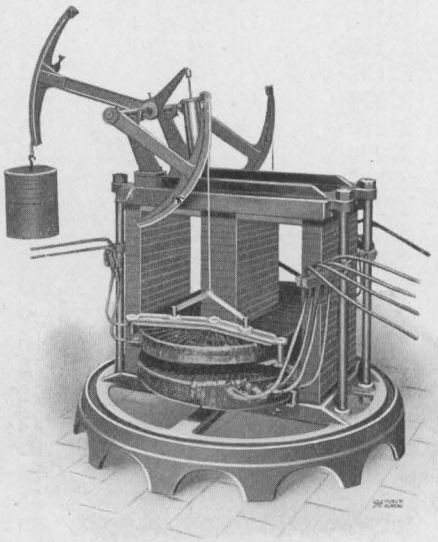
CONSTANT CURRENT TRANSFORMERS FOR OPERATING GENERAL ELECTRIC SERIES ALTERNATING CURRENT LAMPS

Air Cooled, 60 Cycles

With Taps for Approximately Full Load Power Factor at Partial Loads



Exterior



Interior

CONSTANT CURRENT TRANSFORMER—50 LAMPS

Cat. No.	Kw.	Lamps	Amps.	Primary Volts	Taps	Approximate Shipping Weight, Lbs.
29315	15	25	6.6	1100	For 15 and 20 lamps	2000
29316	15	25	6.6	2200	For 15 and 20 lamps	
29317	30	50	6.6	1100	For 30, 35, 40 and 45 lamps	2900
29318	30	50	6.6	2200	For 30, 35 40 and 45 lamps	
29319	62	100	6.6	1100	For 60, 70, 80 and 90 lamps	4815
29320	62	100	6.6	2200	For 60, 70, 80 and 90 lamps	
29321	17.5	25	7.5	1100	For 15 and 20 lamps	2000
29322	17.5	25	7.5	2200	For 15 and 20 lamps	
29323	35	50	7.5	1100	For 30, 35, 40 and 45 lamps	2900
29324	35	50	7.5	2200	For 30, 35, 40 and 45 lamps	
29325	71	100	7.5	1100	For 60, 70, 80 and 90 lamps	4815
29326	71	100	7.5	2200	For 60, 70, 80 and 90 lamps	

The 75 and 100 light transformers have multi-circuit secondaries.

It is the policy of the General Electric Company to furnish the series alternating system as a whole, which includes constant current transformers and lamps. Constant current transformers will not be furnished for operating other than General Electric Company's lamps.

CONSTANT CURRENT TRANSFORMERS FOR OPERATING GENERAL ELECTRIC SERIES ALTERNATING CURRENT LAMPS

Air-Cooled, 60 Cycles

Not Equipped with Taps for Partial Load Operation.

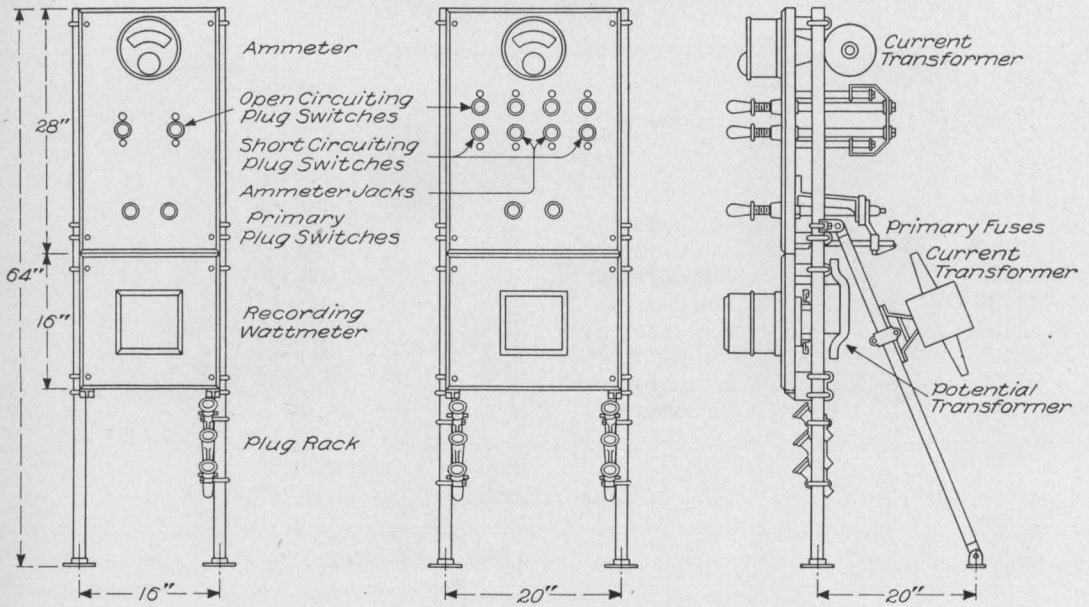
Cat. No.	Kw.	Lamps	Amps.	Primary Volts	Approximate Shipping Weight, Lbs.
27192	4	6	6.6	1100	600
27193	4	6	6.6	2200	
27196	7.75	12	6.6	1100	900
27197	7.75	12	6.6	2200	
27174	15	25	6.6	1100	2000
27175	15	25	6.6	2200	
27204	21	35	6.6	1100	2200
27205	21	35	6.6	2200	
27176	30	50	6.6	1100	2900
27177	30	50	6.6	2200	
27178	46.5	75	6.6	1100/2200	4160
27179	62	100	6.6	1100/2200	4815
27194	4.5	6	7.5	1100	600
27195	4.5	6	7.5	2200	
27198	8.8	12	7.5	1100	900
27199	8.8	12	7.5	2200	
27180	17.5	25	7.5	1100	2000
27181	17.5	25	7.5	2200	
27206	24.5	35	7.5	1100	2200
27207	24.5	35	7.5	2200	
27182	35	50	7.5	1100	2900
27183	35	50	7.5	2200	
27184	52.5	75	7.5	1100/2200	4160
72185	71	100	7.5	1100/2200	4815

Air-Cooled, 60 and 125 Cycles

27186	18	25	6.6	1100	2000
27187	18	25	6.6	2200	
26977	25	35	6.6	1100	2200
26978	25	35	6.6	2200	
27188	35	50	6.6	1100	2900
27189	35	50	6.6	2200	
27190	55	75	6.6	1100/2200	4160
27191	75	100	6.6	1100/2200	4815
29625	21	25	7.5	1100	2000
29626	21	25	7.5	2200	
29627	29	35	7.5	1100	2200
29628	29	35	7.5	2200	
29629	41	50	7.5	1100	2900
29630	41	50	7.5	2200	
29631	63	75	7.5	1100/2200	4160
29632	86	100	7.5	1100/2200	4815

The 50, 75 and 100 light transformers have multi-circuit secondaries.

PANEL BOARDS FOR CONTROLLING SERIES ALTERNATING CURRENT STREET LIGHTING SYSTEMS



25 Light Panel

35 and 50 (Single-Circuit Secondary) Light Panel with Wattmeter Sub-Base

STANDARD CONSTANT CURRENT TRANSFORMER PANELS, FRONT AND REAR VIEWS

25, 35 and 50 (single-circuit secondary) light panels, 28″ x 16″ x 1½″.
50 (multi-circuit secondary), 75 and 100 light panels, 28″ x 20″ x 1½″.
These panels are of blue Vermont marble and are 64″ high.
If desired, sub-base 16″ high with wattmeter can be supplied. See next page.

PANELS 1150-2300 VOLTS

FUSES FOR PANELS

No. of Lights	Cat No.	Approximate Shipping Wt. in Lbs.	Capacity of Transformer in Lamps	Ampere Capacity		Cat. No.	
				1150 Volts	2300 Volts	1150 Volts	2300 Volts
25	44685	400	25	15	8	51293	51290
35–50	44686	400	35	25	12	51295	51292
75–100	44687*	450	50	30	15	51296	51293
12 (Testing)	44688*	150	75	50	25	51298	51295
			100	75	30	23125	51296
			12	8	4	51290	51287

*Multi-Circuit Secondary.

SUB-BASES WITH WATTMETERS

No. of Lights	Ampere Capacity		Cat. No.	
	1150 Volts	2300 Volts	1150 Volts	2300 Volts
25	20	10	44689	44694
35	30	15	44690	44695
50	40	20	44691	44696
75	60	30	44692	44697
100	80	40	44693	44698

LIGHTNING ARRESTERS FOR CONSTANT CURRENT TRANSFORMERS

Station Arresters

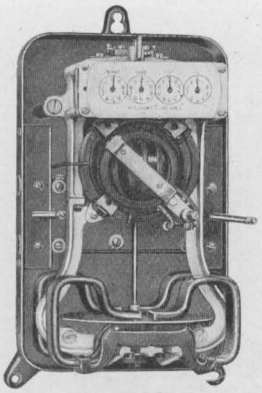
Cat. No.	Description Rating of Transformers.	No. Required	Approx. Shipping Weight, Lbs.	List Price, Each
41505	25 Light	1	30	Prices on application
41495	35 Light	1	65	
	50 Light, single circuit	1		
40700	50 Light, multi-circuit	2	30	
41496	75 Light, single circuit	1	90	
41498	75 Light, multi-circuit	2	65	
41497	100 Light, single circuit	1	116	
41499	100 Light, multi-circuit	2	90	
25400	Porcelain barrier for use with above arresters		4	

Line Arresters

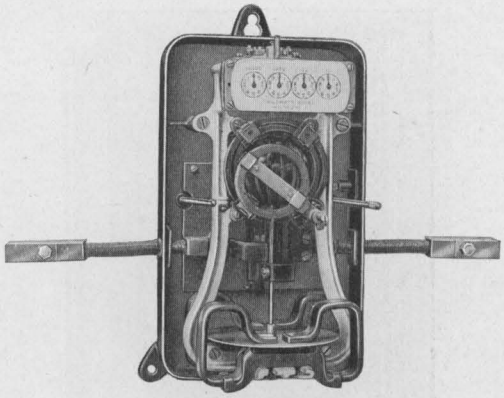
Cat. No.	Description	Approx. Shipping Weight, Lbs.	List Price, Each
42364	41505 in iron box	50	**$12.00**
40701	40700 in iron box	50	**12.00**
41500	41495 in wooden box	65	**26.50**
41501	41496 in wooden box	100	**40.80**
41502	41497 in wooden box	140	**65.00**
41503	41498 in wooden box	65	**26.50**
41504	41499 in wooden box	100	**40.80**

THOMSON RECORDING WATTMETERS

Types C-6 and C-7 Front Connected No. 3 Finish



Cat. No. 37595



Cat. No. 37620

Thomson Recording Wattmeters, Types C-6 and C-7, are made for two-wire and three-wire direct current lighting and motor circuits.

The Type C-6 and C-7 meters have extremely high torque, light weight moving element, small commutator, gravity control brushes and adjustable shunt field coil.

These meters can be furnished with back connections and pressed glass covers. Prices on application.

Type C-6 100-120 Volts—Two-Wire			
Cat. No.	*Lights	Amps.	List Price
37594	10	5	**$ 31.00**
37595	20	10	**33.00**
37596	30	15	**37.00**
37597	50	25	**44.00**
37598	100	50	**58.00**
37599	150	75	**72.00**
37600	200	100	**85.00**
37601	300	150	**110.00**
37602	600	300	**140.00**
37603	1200	600	**200.00**

Type C-6 200-240 Volts—Three-Wire			
Cat. No.	*Lights	Amps.	List Price
37604	20	5	**$ 35.00**
37605	40	10	**40.00**
37606	60	15	**47.00**
37607	100	25	**54.00**
37608	200	50	**71.00**
37609	300	75	**88.00**
37610	400	100	**105.00**
37611	600	150	**135.00**
37612	1200	300	**185.00**

Type C-6 200–240 Volts—Two-Wire				
Cat. No.	*Lights	H.P.	Amps.	List Price
37614	20	1¼	5	**$ 35.00**
37615	40	2	10	**40.00**
37616	60	3½	15	**47.00**
37617	100	7	25	**54.00**
37618	200	15	50	**68.50**
37619	300	20	75	**83.00**
37620	400	25	100	**97.50**
37621	600	40	150	**125.00**
37622	1200	80	300	**160.00**
37623	2400	160	600	**225.00**

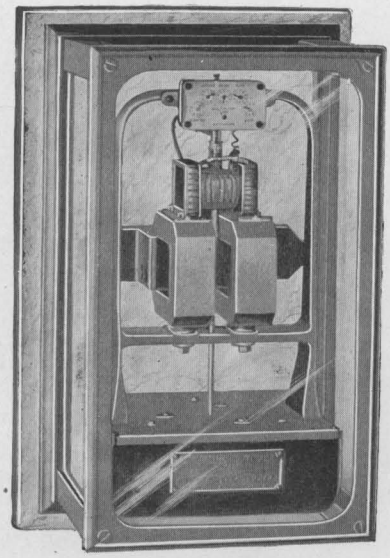
Type C-7 500–600 Volts—Two-Wire			
Cat. No.	H.P.	Amps.	List Price
37624	2½	5	**$ 45.00**
37625	5	10	**52.00**
37626	7½	15	**60.00**
37627	15	25	**70.00**
37628	30	50	**85.00**
37629	50	75	**100.00**
37630	60	100	**115.00**
37631	100	150	**145.00**
37632	200	300	**190.00**
37633	400	600	**260.00**

*Rated on a basis of 50 watts per lamp. **Always give normal operating voltage.**

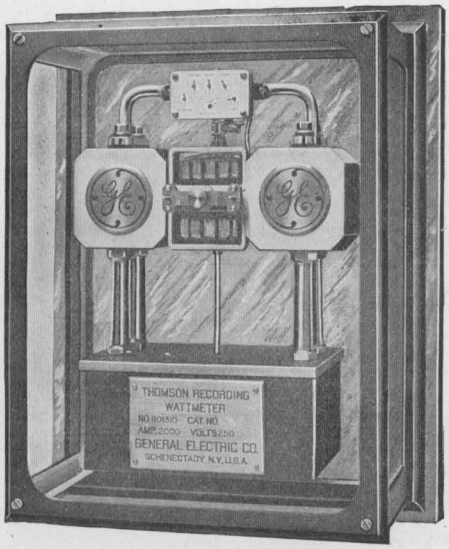
Approximate shipping weight, all voltages 5 to 150 Amp. inclusive, 1 in a box 32 lbs., 2 in a box, 65 lbs.; 300 and 600 Amp., 1 in a box, 67 lbs., 2 in a box, 125 lbs.

THOMSON RECORDING WATTMETERS

High Capacity Astatic Meters



Type E
800 TO 1500 AMPERES



Type G
2000 TO 10000 AMPERES

100–120 Volts—Two-Wire			
Cat. No.	*Lights	Amps.	List Price
27835	1600	800	$ 330.00
27836	2400	1200	360.00
27837	3000	1500	390.00
27838	4000	2000	440.00
27839	6000	3000	470.00
27840	8000	4000	500.00
27841	12000	6000	600.00
27842	16000	8000	850.00
27843	20000	10000	1100.00

200–240 Volts—Three-Wire			
Cat. No.	*Lights	Amps.	List Price
31790	3200	800	$450.00
31791	4800	1200	500.00
31792	6000	1500	550.00

200-240 Volts—Two-Wire				
Cat. No.	*Lights	H.P.	Amps.	List Price
27844	3200	200	800	$ 360.00
27845	4800	320	1200	390.00
27846	6000	400	1500	420.00
27847	8000	550	2000	470.00
27848	12000	800	3000	500.00
27849	16000	1100	4000	530.00
27850	24000	1600	6000	630.00
27851	32000	2200	8000	850.00
27852	40000	2800	10000	1100.00

500-600 Volts—Two-Wire			
Cat. No.	H.P.	Amps.	List Price
27853	500	800	$ 390.00
27854	800	1200	420.00
27855	1000	1500	450.00
27856	1300	2000	500.00
27857	2000	3000	530.00
27858	2600	4000	560.00
27859	4000	6000	660.00
27860	5200	8000	850.00
27861	6600	10000	1100.00

*Rated on a basis of 50 watts per lamp.

Always give normal operating voltage.

Approximate shipping weights, 800 to 1500 Amp., 220 lbs.; 2000 to 6000 Amp., 300 lbs.; 10,000 Amp., 575 lbs.

THOMSON RECORDING WATTMETERS

Arc Meters—Station Service

Cat. No.	Volts	Amperes	Approximate Shipping Weight, Lbs.	List Price
6978	1750	6.6	65	**$110.00**
6979	2500	6.6	65	**125.00**
7150	3250	6.6	120	**135.00**
7151	4000	6.6	120	**150.00**
7810	5000	6.6	120	**175.00**
7811	6250	6.6	140	**200.00**
6980	1750	9.6	65	**110.00**
6981	2500	9.6	65	**125.00**
7152	3250	9.6	120	**135.00**
7153	4000	9.6	120	**150.00**
7812	5000	9.6	120	**175.00**
7813	6250	9.6	140	**200.00**

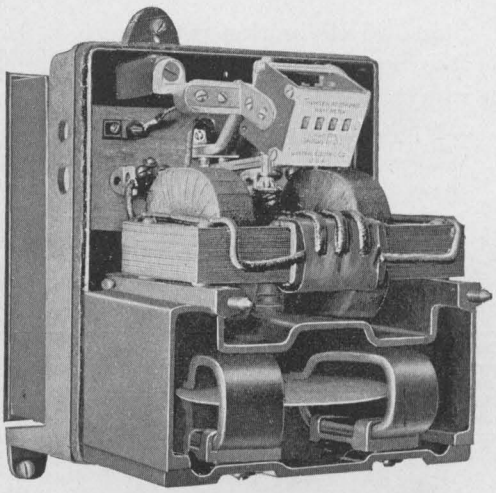
Arc Circuit Station Meters can be furnished for use with Multi-Circuit Brush Arc Generators. Full information will be given upon application.

STREET CAR METERS

500-600 Volts



Cat. No. 5674



Cat. No. 5674 (Cover Removed)

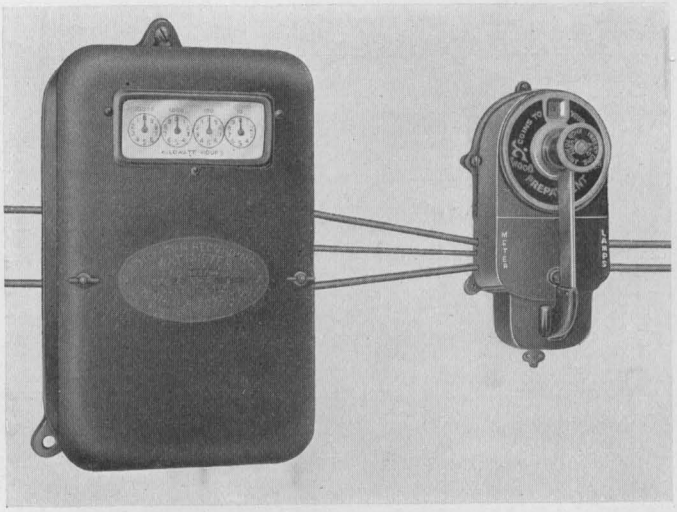
Cat. No.	H.P.	Amperes	List Price	Cat. No.	H.P.	Amperes	List Price
5674	30	50	**$50.00**	26876	200	300	**$135.00**
7969	60	100	**65.00**	29124	400	600	**165.00**
7970	120	200	**85.00**				

Always give normal operating voltage.

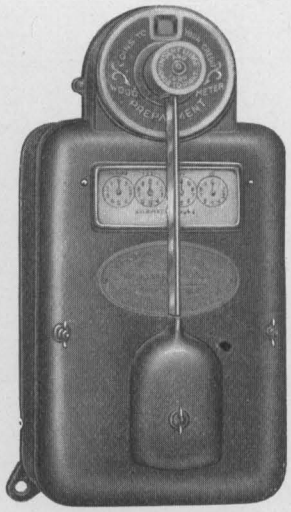
Approximate shipping weight: 1 in a box, 45 lbs.; 2 in a box, 95 lbs.

THOMSON RECORDING WATTMETERS

With Prepayment Device



METER WITH SEPARATE PREPAYMENT DEVICE, TYPE CP
Cat. No. 39282



METER WITH COMBINED PREPAYMENT DEVICE, TYPE CP
Cat. No. 39290

Standard calibration rates are 6, 8, 9, 10, 12, 12.5, 15, 18 and 20 cents per kilowatt-hour. The rate must, however, be specified, otherwise the order will be held pending such information. The rate can be modified if desired, by the substitution of suitable gears.

An additional charge will be made for rates other than standard. Prices on application.

Type CP

With Separate Prepayment Device

100–120 Volts 2-Wire			200–240 Volts 3-Wire			200–240 Volts 2-Wire		
Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
39282	5	**$56.00**	39285	5	**$60.00**	39287	5	**$60.00**
39283	10	**58.00**	39286	10	**65.00**	39288	10	**65.00**
39284	15	**62.00**	39431	15	**72.00**	39432	15	**72.00**

Type CP-2

With Combined Prepayment Device

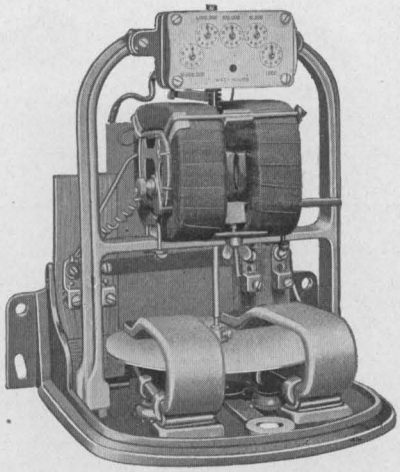
100–120 Volts 2-Wire			200–240 Volts 3-Wire			200–240 Volts 2-Wire		
Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
39289	5	**$53.00**	39292	5	**$57.00**	39294	5	**$57.00**
39290	10	**55.00**	39293	10	**62.00**	39295	10	**62.00**
39291	15	**59.00**	39433	15	**69.00**	39434	15	**69.00**

Always give normal operating voltage, rate of charge, the number of keys desired and to whom same should be sent.

p roximate shipping weight, with device, 50 lbs.

THOMSON RECORDING WATTMETERS

Adjustable Shunt Field Coil

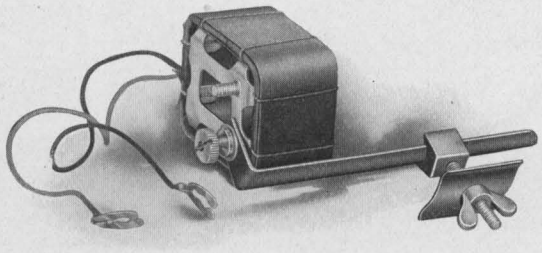


THOMSON RECORDING WATTMETER
With Adjustable Shunt Field Coil

An adjustable coil has been designed for use with standard Thomson Recording Wattmeters of earlier manufacture, to enable users of such meters to bring the meters up to the present standard in respect to light load adjustment.

Only one Adjustable Shunt Field Coil is required except for meters of 1200 ampere capacity, which have two, either or both of which may be used in making the light load adjustment.

In ordering separate adjustable shunt coils it should be noted that shunts are catalogued for high and for low efficiency meters.



ADJUSTABLE SHUNT FIELD COIL

	Cat. No.	Description	List Price	
	31266	For low efficiency meters . . .	**$1.25**	
	31267	For high efficiency meters . . .	**1.25**	

THOMSON RECORDING WATTMETERS

Jewel Screws



Cat. No. 31320
FILLISTER



Cat. No. 6704
HEADLESS



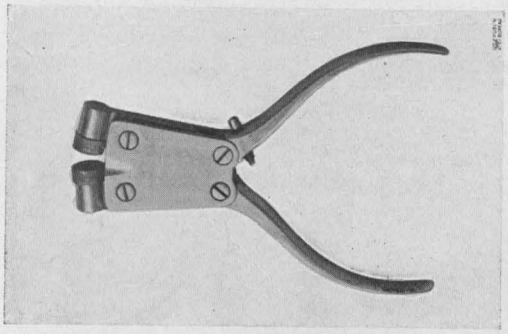
Cat. No. 39926
HEXAGONAL



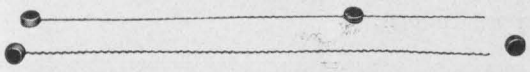
Cat. No. 6827
PIVOT

Cat. No.	Sapphire Jewels	Finish	Net Price
6704	Stationary headless	Nickel	$0.35
31320*	For meters with single aluminum disk (earlier than Type "C" and Type "I")	Nickel	.35
6672*	" " " " copper disk	Brass	.35
39924	" Type "I" and Type "C" meter	Brass	.35
	Cup Diamond Jewels		
39925**	For Type "C" meter	Brass	1.90
39926**	" " "E" and "G" meters, also other commutating meters earlier than Type "C"	Copper	1.90
	Pivot		
6827	Pivot or shaft end for all jewels		.08

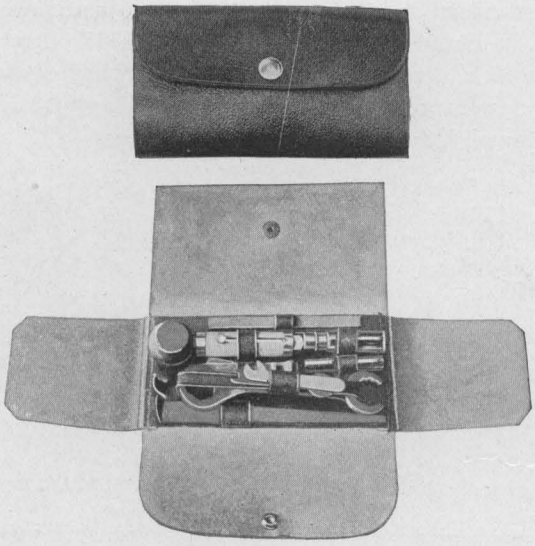
*Removable jewel with fillister head.
**Removable jewel with hexagonal head.
Diamond jewels are standard for all commutating meters of 50 Kw. capacity and larger.



Cat. No. 5493



Cat. No. 44955



Cat. No. 5770

Meter Tools

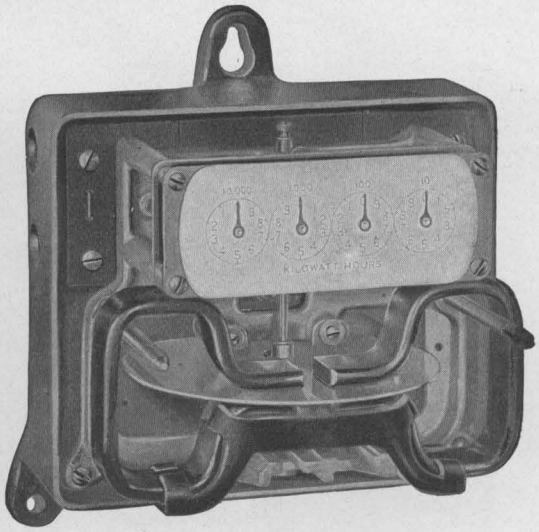
Cat. No.	Description	List Price
5493	Pocket meter sealing tool	$4.00
	" " " " engraved "GE"	4.50
	" " " " with purchaser's initials	5.25
44955	Duplex sealing wire with loose lead per 1000	5.00
5770	Complete pocket set of meter adjustment tools in case. Includes jewel wrench, pivot wrench, top bearing and brush stud wrench, brush and magnet cleaners, magazine screwdriver, level, etc.	6.50

THOMSON HIGH TORQUE INDUCTION METER

Type I



METER COMPLETE



METER WITH COVER REMOVED

The Thomson High Torque Single Phase and Polyphase Induction Meters embody important improvements which are the result of years of manufacturing experience and close observation of meters in actual service. The highest torque of any induction meters in commercial use has been secured not by increased energy consumption, but by economical and scientific arrangement of the several parts. The feature of high torque insures long life with accuracy.

100–120 Volts—Two-Wire				200–240 Volts—Two-Wire				
Cat. No.	Lights	Amps.	List Price	Cat. No.	Lights	H.P.	Amps.	List Price
51173	6	3	**$25.00**	19042	12	1	3	**$30.25**
51174	10	5	**25.00**	51182	20	1¼	5	**30.25**
51175	20	10	**28.00**	51183	40	2	10	**36.00**
51176	30	15	**32.00**	51184	60	3½	15	**41.00**
51177	50	25	**40.00**	51185	100	7	25	**50.00**
51178	100	50	**53.50**	51186	200	15	50	**63.50**
51179	150	75	**64.50**	51187	300	20	75	**74.50**
51180	200	100	**74.50**	51188	400	25	100	**84.50**
51181	300	150	**87.00**	51189	600	40	150	**98.00**
33584	400	200	**98.00**	33586	800	50	200	**109.00**
33585	600	300	**110.00**	33587	1200	80	300	**123.50**

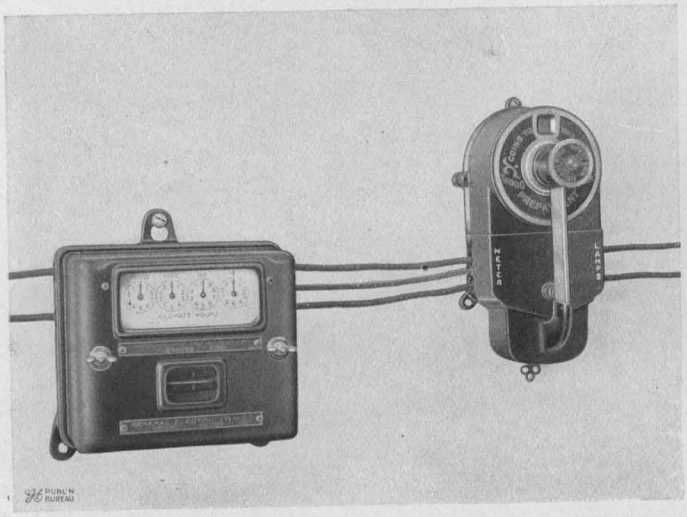
200–240 Volts—Three-Wire							
Cat. No.	Lights	Amps.	List Price	Cat. No.	Lights	Amps.	List Price
33588	12	3	**$30.25**	51193	200	50	**$63.50**
33589	20	5	**30.25**	51194	300	75	**74.50**
33590	40	10	**36.00**	51195	400	100	**84.50**
51191	60	15	**41.00**	51196	600	150	**98.00**
51192	100	25	**50.00**				

Always give normal operating voltage and frequency of the circuit.

Approximate shipping weight: all voltages up to 25 Amp. inclusive, 1 in a box, 26 lbs.; 2 in a box, 42 lbs.; 4 in a box, 78 lbs.; 6 in a box, 115 lbs.; 50 to 100 Amp. inclusive, 1 in a box, 30 lbs.; 2 in a box, 45 lbs.; 150 to 300 Amp. inclusive, 1 in a box, 34 lbs.; 2 in a box, 50 lbs.

THOMSON HIGH TORQUE INDUCTION METER

With Prepayment Device



METER WITH SEPARATE PREPAYMENT DEVICE, TYPE IP
Cat. No. 39306



METER WITH COMBINED PREPAYMENT DEVICE, TYPE IP-2
Cat. No. 39311

For general information on prepayment meters see page 36.

With Separate Prepayment Device—Type IP

100–120 Volts 2–Wire			200–240 Volts 3–Wire			200–240 Volts 2-Wire		
Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
39296	3	**$50.00**	39301	3	**$55.25**	39305	3	**$55.25**
39297	5	**50.00**	39302	5	**55.25**	39306	5	**55.25**
39298	10	**53.00**	39303	10	**61.00**	39307	10	**61.00**
39299	15	**57.00**	39304	15	**66.00**	39308	15	**66.00**

With Combined Prepayment Device—Type IP-2

39309	3	**$45.00**	39314	3	**$50.25**	39318	3	**$50.25**
39310	5	**45.00**	39315	5	**50.25**	39319	5	**50.25**
39311	10	**48.00**	39316	10	**56.00**	39320	10	**56.00**
39312	15	**52.00**	39317	15	**61.00**	39321	15	**61.00**

Always specify rate of charge, normal operating voltage, and frequency of the circuit; the number of keys desired and to whom they should be sent.

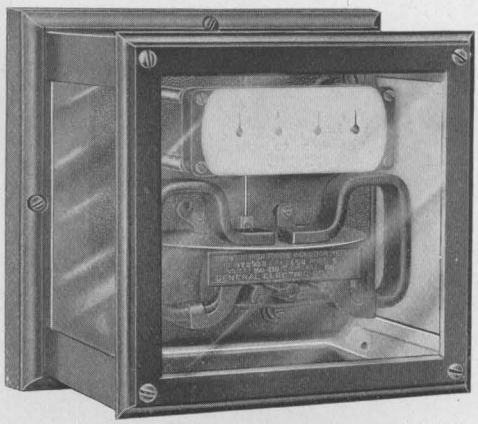
Approximate shipping weight, 1 in a box, with device, 40 lbs.; 2 in a box, with device, 75 lbs.

THOMSON HIGH TORQUE SINGLE-PHASE PRIMARY INDUCTION WATTMETERS

Types IS-2 and IS-3



Cat. No. 41519



Cat. No. 41569

TYPE IS-2, 60-140 CYCLES

1000–1150 Volts			2000–2300 Volts		
Cat. No.	Amps.	*List Price	Cat. No.	Amps.	†List Price
41429	5	**$100.00**	41515	5	**$130.00**
41430	10	**100.00**	41516	10	**130.00**
41431	15	**105.00**	41517	15	**135.00**
41432	25	**115.00**	41518	20	**140.00**
41511	50	**135.00**	41519	30	**145.00**
41512	75	**150.00**	41520	40	**150.00**
41513	100	**165.00**	41521	60	**160.00**
41514	150	**180.00**	41522	80	**170.00**
			41523	100	**180.00**
			41524	150	**190.00**

TYPE IS-3, 60-140 CYCLES

1000–1150 Volts			2000–2300 Volts		
Cat. No.	Amps.	*List Price	Cat. No.	Amps.	†List Price
41568	5	**$115.00**	41576	5	**$145.00**
41569	10	**115.00**	41577	10	**145.00**
41570	15	**120.00**	41578	15	**150.00**
41571	25	**130.00**	41579	20	**155.00**
41572	50	**150.00**	41580	30	**160.00**
41573	75	**165.00**	41581	40	**165.00**
41574	100	**180.00**	41582	60	**175.00**
41575	150	**195.00**	41583	80	**185.00**
			41584	100	**195.00**
			41585	150	**205.00**

*Price includes potential transformer.
†Price includes potential and current transformer.

Always give normal operating voltage and frequency of circuit.

Approximate shipping weight, 1 in a box, 65 lbs.; 2 in a box, 130 lbs.

THOMSON HIGH TORQUE INDUCTION TEST METER

Type IB



To every central station or isolated plant the question of periodical meter calibration is of vital importance, and the customary method of making such tests is by the use of indicating instruments. Although there is no question regarding the accuracy of this method, the rapid growth in the electric lighting and power industry and the more than proportionate increase in the use of the rotating meter as a means of measurement, demand that some way be provided whereby tests may be made more quickly, and yet at the same time without in the least decreasing their reliability. Such a method is provided by the use of the Thomson High Torque Induction Test Meter.

Cat. No.	Amperes	Volts	Cycles	List Price
39514	1/10/20	110	60	**$120.00**

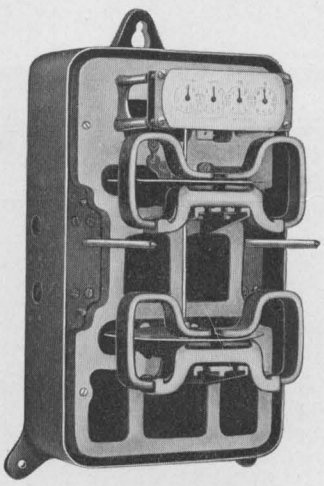
THOMSON POLYPHASE RECORDING WATTMETERS

The General Electric Company manufactures a special type of Thomson Recording Wattmeter for the specific purpose of measuring the energy delivered on two-phase, three-phase, or monocyclic systems, to both balanced and unbalanced loads. This meter renders an accurate record of such energy in a single device and upon a single dial, and may be applied to a circuit having a mixed load of lamps, motors and other devices, no matter how unbalanced the load may be.



METER COMPLETE

In the measurement of unbalanced loads the Thomson Polyphase Recording Wattmeter accomplishes what has heretofore been impracticable with a single metering device, and is therefore applicable to large numbers of installations which have previously required two or more meters for measurements.



METER WITH COVER REMOVED

In ordering polyphase meters, the system — two-phase, three-phase, or monocyclic and the frequency—upon which the meters are to be used should be specified, as certain slight internal modifications are necessary.

THOMSON POLYPHASE RECORDING WATTMETERS

Type D-3

For Two-Phase, Three-Phase and Monocyclic Circuits
Sheet Metal Cover, Japan Finish

25-140 Cycles

Circuit			Capacity Amperes	Kw. Capacity Non-Inductive Load		H.P. Capacity Motors 2- and 3-Phase Monocyclic	List Price
3-Wire 3-Phase, 3-Wire 2-Phase and Monocyclic	4-Wire 2-Phase	*4-Wire 3-Phase		2- and 3-Phase	Monocyclic		
Cat. No.	Cat. No.	Cat. No.					
100-120 VOLTS							
41314	41341	41368	3	½	¼	½	$65.00
41315	41342	41369	5	1	½	1	65.00
41316	41343	41370	10	2	1	2	70.00
41317	41344	41371	15	3	1½	3	75.00
41318	41345	41372	25	5	3	5	82.00
41319	41346	41373	50	10	5	10	92.50
41320	41347	41374	75	15	8	15	102.50
41321	41348		100	20	10	20	112.50
41322	41349		150	30	15	30	132.50
200-240 VOLTS							
41323	41350	41375	3	1	½	1	$71.25
41324	41351	41376	5	2	1	2	71.25
41325	41352	41377	10	4	2	4	77.00
41326	41353	41378	15	6	3	6	83.00
41327	41354	41379	25	10	5	10	90.00
41328	41355	41380	50	20	10	20	103.00
41329	41356	41381	75	30	15	30	112.50
41330	41357		100	40	20	40	122.75
41331	41358		150	60	30	60	142.75
400-480 VOLTS							
44961	44970	44979	3	2	1	2	$80.00
44962	44971	44980	5	4	2	4	80.00
44963	44972	44981	10	8	4	8	87.50
44964	44973	44982	15	12	6	12	95.00
44965	44974	44983	25	20	10	20	105.00
44966	44975	44984	50	40	20	40	117.75
44967	44976	44985	75	60	30	60	127.75
44968	44977		100	80	40	80	137.75
44969	44978		150	120	60	120	157.75
500-600 VOLTS							
41332	41359	41382	3	3	1½	3	$80.00
41333	41360	41383	5	5	3	5	80.00
41334	41361	41384	10	10	5	10	87.50
41335	41362	41385	15	15	8	15	95.00
41336	41363	41386	25	25	12	25	105.00
41337	41364	41387	50	50	25	50	117.75
41338	41365	41388	75	75	40	75	127.75
41339	41366		100	100	50	100	137.75
41340	41367		150	150	75	150	157.75

*Voltage of meters for 4-wire 3-phase system is that between neutral and outsides.

For circuits in excess of 150 amperes, two current transformers are required for each meter, except 4-wire 3-phase where three current transformers are required above 75 amperes.

For circuits above 650 volts, two current and two potential transformers are necessary.

Always give normal operating voltage and frequency of circuit.

Approximate shipping weight: 1 in a box, 48 lbs.; 2 in a box, 94 lbs.

THOMSON PRIMARY POLYPHASE METERS

Type DS-2

For Two-Phase, Three-Phase and Monocyclic Circuits

Cast Metal Cover, Dull Black Finish



Cat. No. 41409

Capacity Amperes	Kw. Capacity Non-Inductive Loads		H.P. Capacity Motors 2- and 3-Phase and Monocyclic	Cycles 25–40	List Price	Cycles 60–140	List Price
	2- and 3-Phase	Monocyclic		Cat. No.		Cat. No.	
1000-1100 VOLTS							
5	10	5	10	41389	**$275.00**	41409	**$255.00**
10	20	10	20	41390	**280.00**	41410	**260.00**
15	30	15	30	41391	**290.00**	41411	**270.00**
20	40	20	40	41392	**300.00**	41412	**280.00**
30	60	30	60	41393	**310.00**	41413	**290.00**
40	80	40	80	41394	**320.00**	41414	**300.00**
60	120	60	120	41395	**330.00**	41415	**310.00**
80	160	80	160	41396	**340.00**	41416	**320.00**
100	200	100	200	41397	**350.00**	41417	**330.00**
150	300	150	300	41398	**365.00**	41418	**345.00**
2000-2300 VOLTS							
5	20	10	20	41399	**$275.00**	41419	**$255.00**
10	40	20	40	41400	**280.00**	41420	**260.00**
15	60	30	60	41401	**290.00**	41421	**270.00**
20	80	40	80	41402	**300.00**	41422	**280.00**
30	120	60	120	41403	**310.00**	41423	**290.00**
40	160	80	160	41404	**320.00**	41424	**300.00**
60	240	120	240	41405	**330.00**	41425	**310.00**
80	320	160	320	41406	**340.00**	41426	**320.00**
100	400	200	400	41407	**350.00**	41427	**330.00**
150	600	300	600	41408	**365.00**	41428	**345.00**

To measure output of generators, use Kw. capacity as given above.

List price includes two current and two potential transformers.

Always give normal operating voltage and frequency of circuit.

Prices of polyphase meters for use on three-phase, four-wire circuits will be furnished on application.

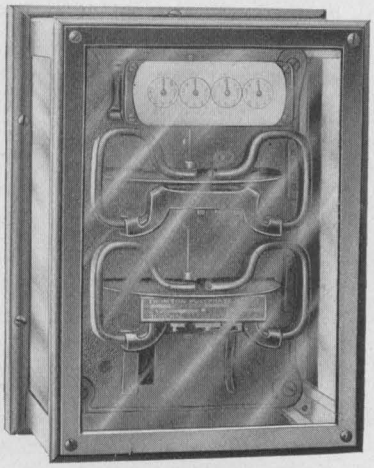
Approximate shipping weight, 195 lbs.

THOMSON PRIMARY POLYPHASE METERS

Type DS-3

For Two-Phase, Three-Phase and Monocyclic Circuits

Rectangular Glass Cover, Dull Black Finish



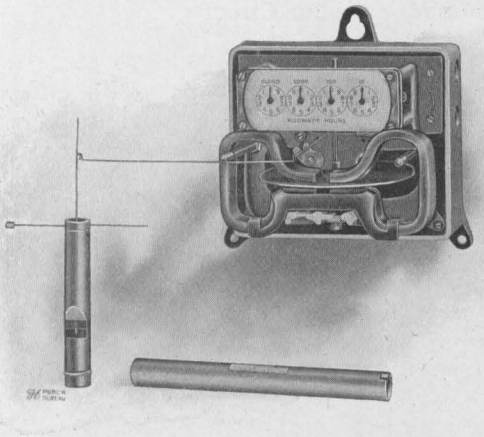
Cat. No. 41532

Capacity Amperes	Kw. Capacity Non-Inductive Loads		H.P. Capacity Motors 2-and 3-Phase and Monocyclic	Cycles 25–40	List Price	Cycles 60–140	List Price
	2-and 3-Phase	Monocyclic		Cat. No.		Cat. No.	
1000-1150 VOLTS							
5	10	5	10	41528	$300.00	41548	$280.00
10	20	10	20	41529	310.00	41549	290.00
15	30	15	30	41530	330.00	41550	310.00
20	40	20	40	41531	340.00	41551	320.00
30	60	30	60	41532	350.00	41552	330.00
40	80	40	80	41533	360.00	41553	340.00
60	120	60	120	41534	370.00	41554	350.00
80	160	80	160	41535	380.00	41555	360.00
100	200	100	200	41536	390.00	41556	370.00
150	300	150	300	41537	405.00	41557	385.00
2000-2300 VOLTS							
5	20	10	20	41538	$300.00	41558	$280.00
10	40	20	40	41539	310.00	41559	290.00
15	60	30	60	41540	330.00	41560	310.00
20	80	40	80	41541	340.00	41561	320.00
30	120	60	120	41542	350.00	41562	330.00
40	160	80	160	41543	360.00	41563	340.00
60	240	120	240	41544	370.00	41564	350.00
80	320	160	320	41545	380.00	41565	360.00
100	400	200	400	41546	390.00	41566	370.00
150	600	300	600	41547	405.00	41567	385.00

To measure output of generators, use Kw. capacity as given above.
List price includes two current and two potential transformers.
Always give frequency of circuit, and normal operating voltage.
Prices of polyphase meters for use on three-phase, four-wire circuits will be furnished on application.
Approximate shipping weight, 1 in a box, 135 lbs.; glass cover in separate box, 60 lbs.; total 195 lbs

THOMSON RECORDING WATTMETERS

Portable Torque Balance



PORTABLE TORQUE BALANCE
Attached to Thomson High Torque Induction Meter

This device is used for measuring the torque of all motor-meters. The entire mechanism folds closely together and is enclosed in a nickel-plated metallic case, $7\frac{1}{4}'' \times \frac{3}{4}''$. Full directions accompany each device.

Portable Torque Balance, **Net** Price, **$2.50**

FINISHES

TYPE C-6 METERS—The standard finish of Thomson Recording Wattmeters, Type C-6, for secondary circuits of less than 600 amperes capacity, is black japan.

The standard finish of switchboard meters is dull black.

TYPE E METERS—Cover has metal frame with glass top, bottom, sides and front. The metal parts of the cover have dull black finish, the fields polished copper. The magnetic shield has polished black enamel with edge of upper plate polished copper.

TYPE G METERS—Cover has metal frame with glass top, bottom, sides and front. The metal parts of the cover have dull black finish, the fields polished copper; studs supporting magnetic shield, polished brass; the shield black enamel with edge of upper plate polished copper.

ARC METERS—No. 3 cover with dull black finish, interior parts dipped and lacquered.

STREET CAR METERS—Cover all metal with dull black finish, base and interior parts of meter black japan.

PREPAYMENT METERS, Types CP, CP-2, IP and IP-2—The finish of the meter and the prepayment device is the same as that of the Type C-6 and Type I meters.

TYPE I METERS—Front connected for house installation, have pressed metal covers. The cover and back are finished in black japan.

TYPE IS-2 METERS—Back connected, for switchboard installation, have cast metal covers finished in dull black, raised portions buffed to copper.

TYPE IS-3 METERS—Also back connected, have rectangular glass covers with cast metal frame; the metal parts of cover and interior of meter have dull black finish.

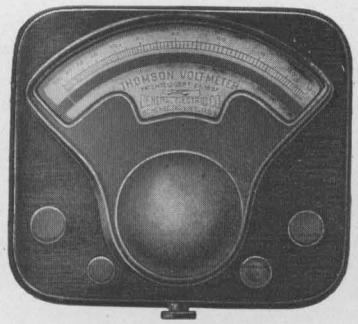
TYPE D-3 METERS—Front connected for house installation, have sheet metal covers finished in black japan; the back is black japan and interior parts of the meter are dipped and lacquered.

TYPE DS-2 METERS—Back connected for switchboard installation, have cast metal covers finished in dull black, raised portions buffed to copper.

TYPE DS-3 METERS—Also back connected, have rectangular glass covers with cast metal frame; the metal parts of cover and interior of meter have dull black finish.

PORTABLE INSTRUMENTS TYPE P

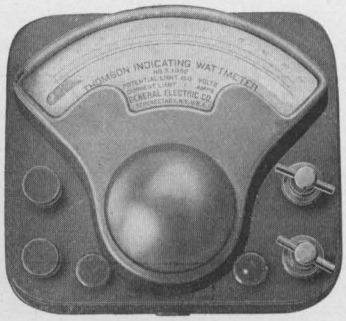
Thomson Inclined Coil Portable Ammeters, Voltmeters and Wattmeters



VOLTMETER



AMMETER



WATTMETER

These instruments are accurate and permanent, irrespective of frequency, and may be relied upon for all measurements of alternating current circuits. They may also be used with good results on direct current circuits.

Their construction is such as to enable them to withstand, without loss of accuracy, the rough usage to which they may be exposed.

The wattmeters will be found particularly useful for meter, incandescent lamp, transformer and alternating current arc lamp measurements.

The permissible maximum current is marked upon each instrument, and all sizes may be used at any voltage from 0 to 150.

The standard finish is black oxide cover with mahogany base.

A hard-wood carrying case is supplied with each instrument.

AMMETERS

Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
6461	2	**$40.00**	40685	40	**$40.00**
28789	5	**40.00**	40686	60	**40.00**
6456	10	**40.00**	40687	80	**50.00**
3332	15	**40.00**	6459	100	**50.00**
40683	20	**40.00**	40688	150	**50.00**
40684	30	**40.00**	6460	200	**50.00**

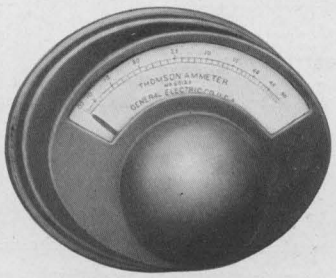
VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
3335	65	**$50.00**	3344	300	**$50.00**
3336	130	**50.00**	3337	600	**50.00**

WATTMETERS—100-125 VOLTS

Cat. No.	Amps.	Watts	List Price	Cat. No.	Amps.	Watts	List Price
7986	1.5	150	**$75.00**	40691	40.	4000	**$ 75.00**
7981	3.	300	**75.00**	40692	60.	6000	**110.00**
30527	5.	500	**75.00**	40693	80.	8000	**115.00**
28860	10.	1000	**75.00**	8093	100.	10000	**115.00**
7982	15.	1500	**75.00**	8094	150.	15000	**120.00**
40689	20.	2000	**75.00**	8095	200.	20000	**125.00**
40690	30.	3000	**75.00**				

Approximate shipping weight: 1 in a box, 17 lbs.; 2 in a box, 40 lbs.; 3 in a box, 85 lbs.

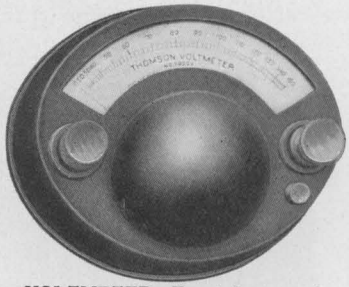


AMMETER—Back Connected Type OS

Pocket Instruments Types O and OS

The Pocket instruments are designed in a form so compact as to permit of their being carried in a side pocket of a coat. They may be used upon either direct or alternating current circuits.

The covers of front connected instruments are finished in black oxide, those of back connected instruments in dull black. The bases of both are polished copper.



VOLTMETER—Front Connected Type O

PORTABLE INSTRUMENTS—Continued

Pocket Instruments—Types O and OS

AMMETERS

Cat. No.	Amps.	List Price	Cat. No.	Amps.	List Price
7975	2	**$25.00**	40695	30	**$25.00**
28790	5	**25.00**	40696	40	**30.00**
7976	10	**25.00**	40697	60	**30.00**
37901	15	**25.00**	*40698	80	**30.00**
40694	20	**25.00**	*33742	100	**30.00**

VOLTMETERS

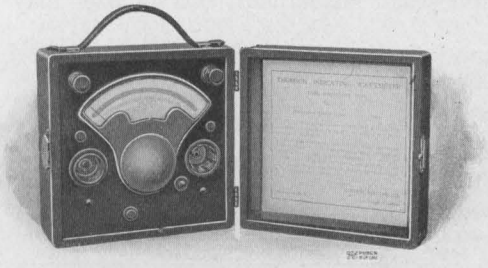
Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
7984	75	**$30.00**	37942	300	**$35.00**
7985	150	**30.00**			

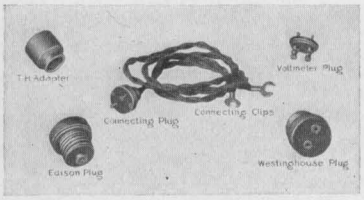
*Made in back connected form only.

Type O instruments are front connected; Type OS back connected.
Approximate shipping weight, 1 in a box, 7 lbs.; 2 in a box, 18 lbs.

Lamp Inspector's Indicating Wattmeter

Type P-2





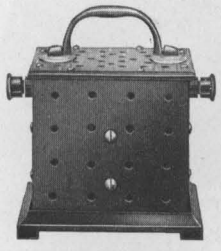
Cat. No. 7987

These instruments are correct on any potential and current within the limits of the instruments, and, by taking reversed readings for which a reversing key is provided to eliminate the errors due to local fields, are correct on direct current circuits.

The instrument is mounted in a mahogany box.

Cat. No.	Amps.	Watts	List Price
7987	1.5	150	**$100.00**

Multipliers for Portable Voltmeters and Wattmeters

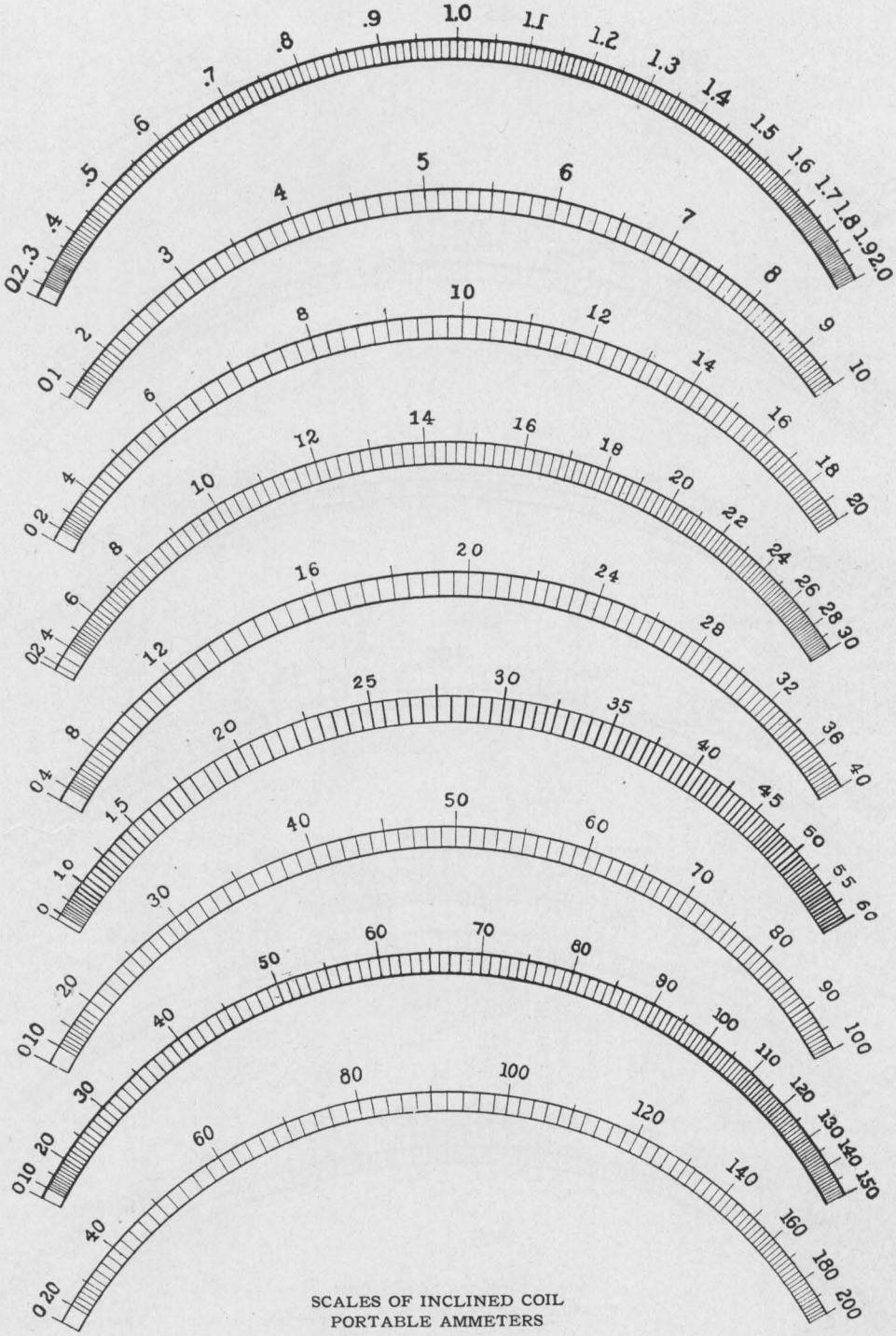


Capacity of Instrument in Volts	Ratio	List Price
65	2 : 1	**$20.00**
130–150	2 : 1	**20.00**
300	2 : 1	**25.00**
130–150	4 : 1	**25.00**
130–150	5 : 1	**30.00**

The serial numbers of the instruments with which the multipliers are to be used must in all cases be given when ordering multipliers for instruments already in customer's possession

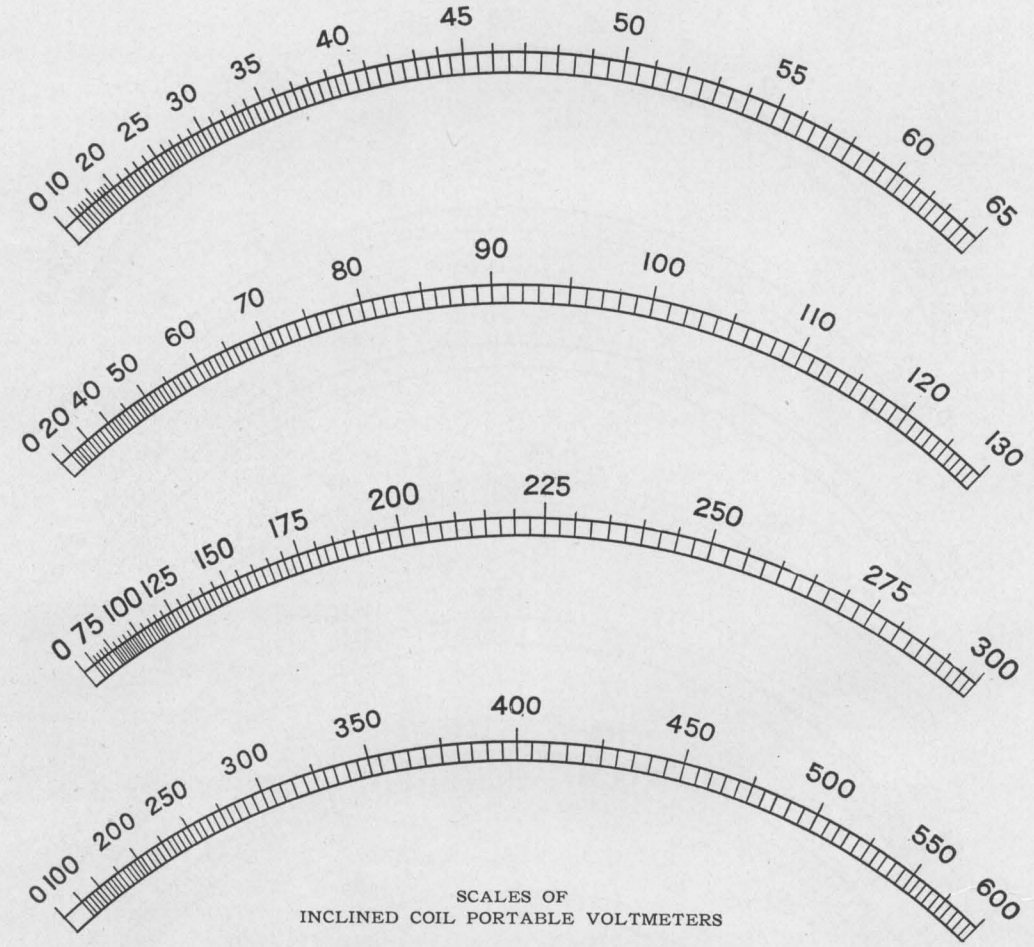
PORTABLE INSTRUMENTS

Type P

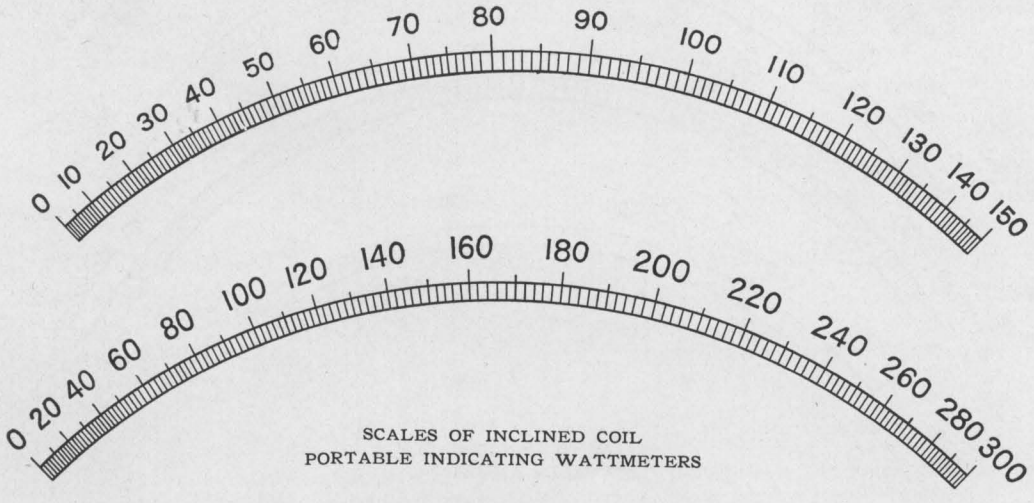


SCALES OF INCLINED COIL
PORTABLE AMMETERS

PORTABLE INSTRUMENTS
Type P



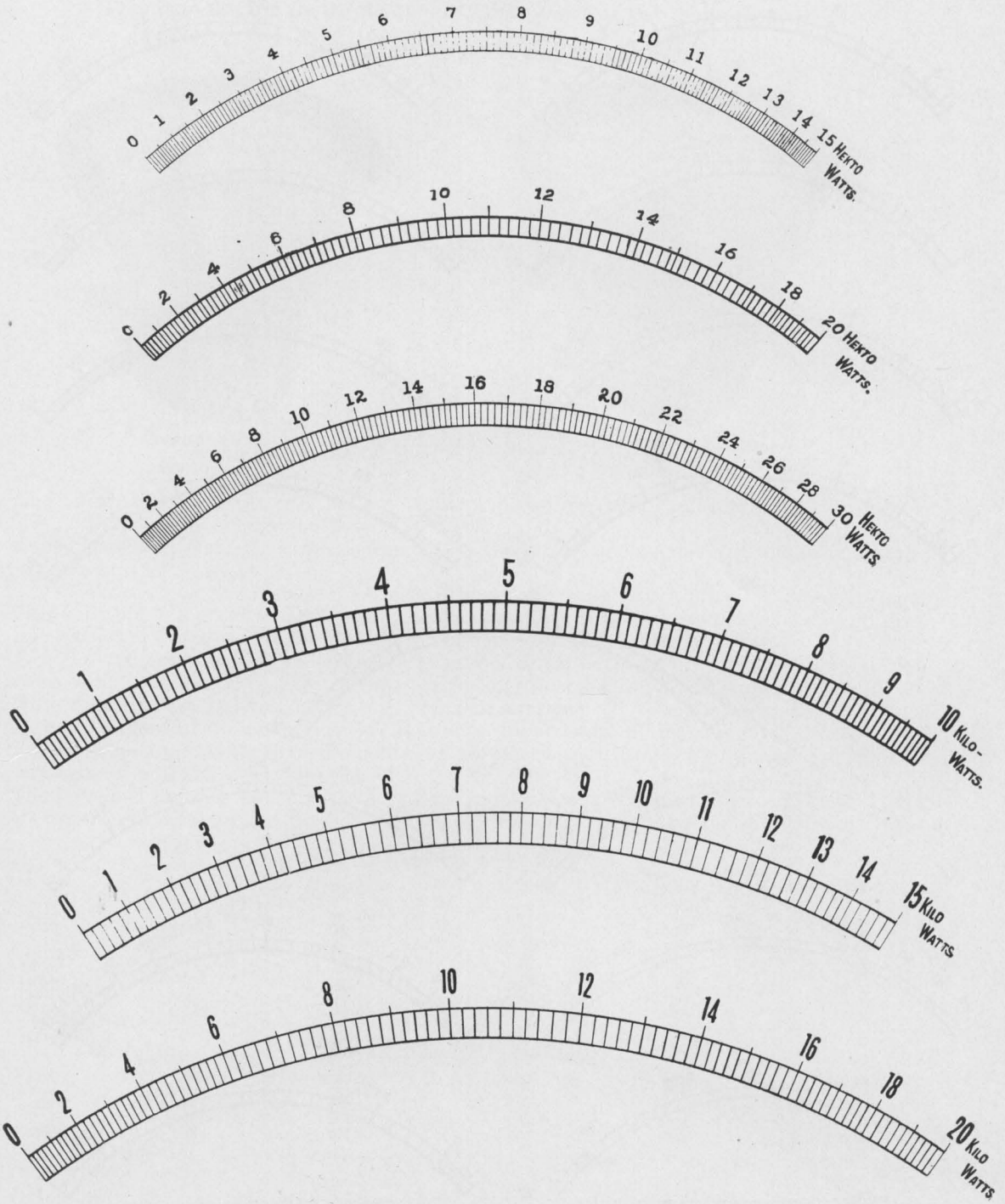
SCALES OF
INCLINED COIL PORTABLE VOLTMETERS



SCALES OF INCLINED COIL
PORTABLE INDICATING WATTMETERS

PORTABLE INSTRUMENTS

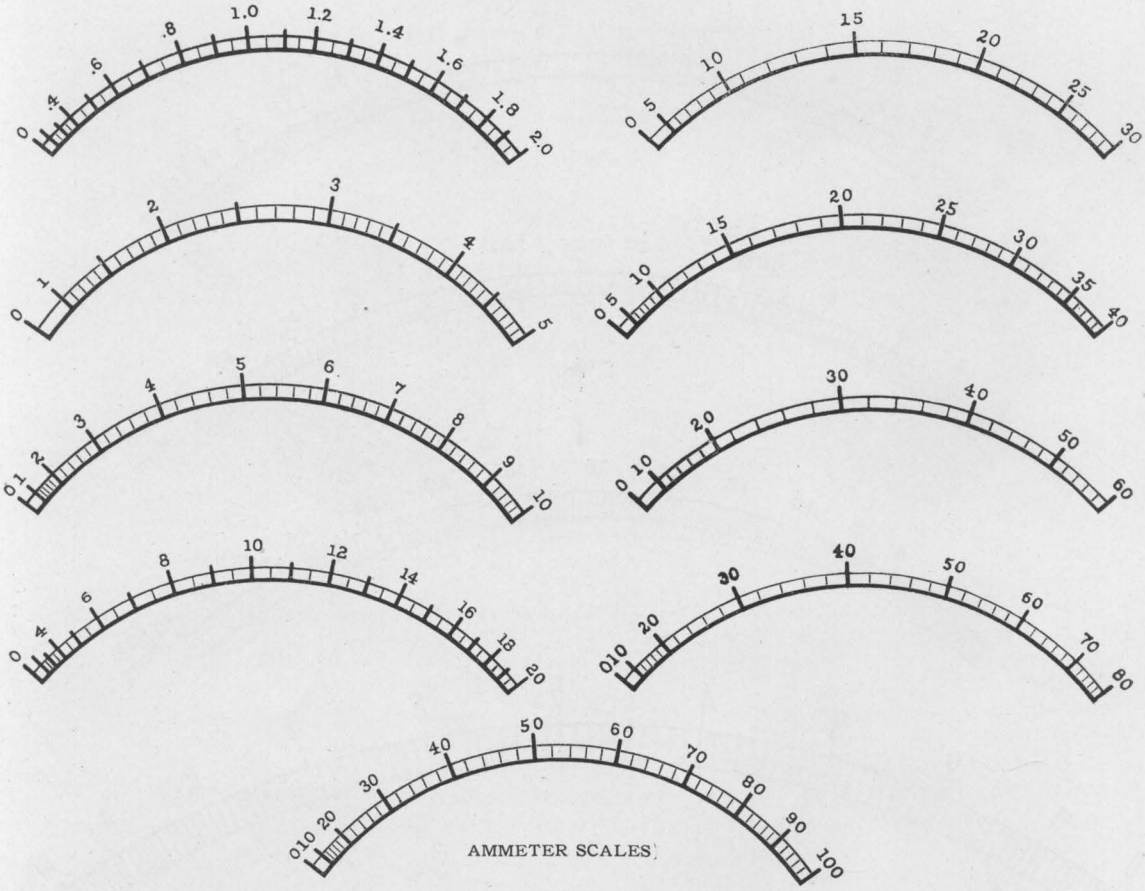
Type P



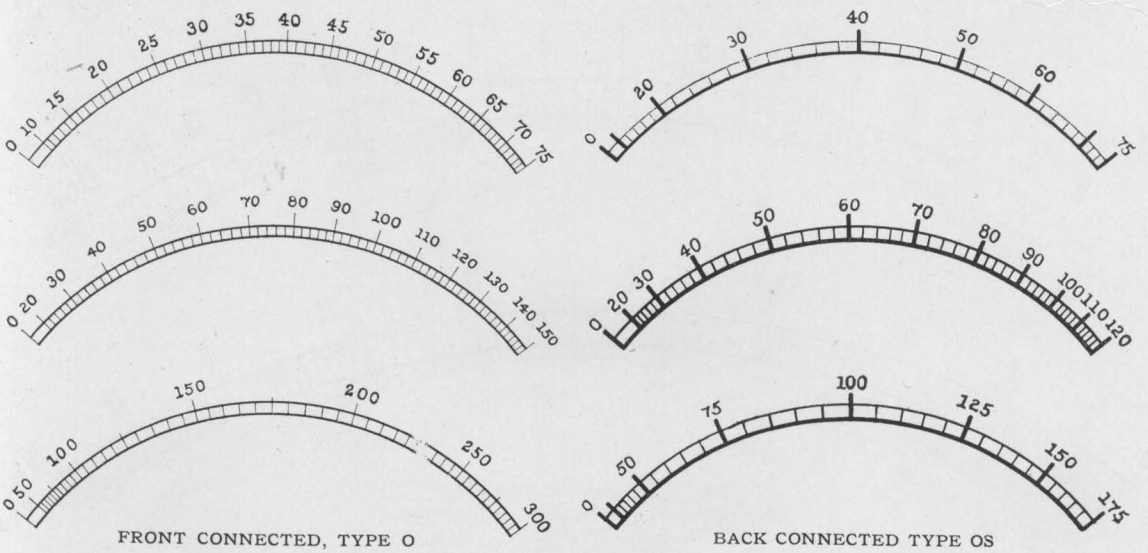
SCALES OF INCLINED COIL
PORTABLE INDICATING WATTMETERS

POCKET INSTRUMENTS

Types O and OS



AMMETER SCALES



FRONT CONNECTED, TYPE O

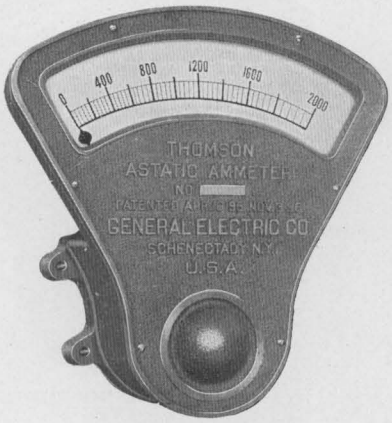
BACK CONNECTED TYPE OS

VOLTMETER SCALES

SWITCHBOARD INSTRUMENTS

Thomson Astatic Instruments for Continuous Current Switchboards

Ammeters Types A and AI



ASTATIC AMMETER
TYPE AI
Illuminated Dial



ASTATIC AMMETER
TYPE A
For Feeder Circuits

Thomson Astatic Instruments have no controlling springs and the accuracy of the instruments is not affected by changes in magnet strength.

The effects of external fields are eliminated by the astatic arrangement of the fields and the moving elements.

The fields of these instruments are electro-magnets wound for 125, 250 or 550 volts, and provided with binding posts separate from the current posts of the instrument.

Indications are rendered dead beat by a magnetic damping system.

Two 60-volt miniature incandescent candelabra lamps, Style F, are used for illuminating the scales of all illuminated dial instruments excepting those having an exciting voltage of 250, which are shipped with 120-volt lamps.

A record is kept of the resistance of the shunts shipped with all instruments.

The binding posts of these instruments are so placed that they may be used for front or back connection without alteration.

The standard finish is dull black with raised portions of cover finished in copper.

Unless otherwise specified, five-foot leads are furnished with ammeter shunts.

FEEDER TYPE AMMETERS, TYPE A

Cat. No.	Amps.	*List Price	Cat. No.	Amps.	*List Price
56123	15	**$62.00**	3348	200	**$68.00**
40615	20	**63.00**	3349	300	**70.00**
40616	30	**63.00**	56126	400	**72.00**
40617	40	**64.00**	3376	600	**76.00**
40618	60	**64.00**	3351	800	**78.00**
40619	80	**65.00**	3352	1000	**82.00**
3347	100	**66.00**	3353	1500	**98.00**
56125	150	**67.00**	3354	2000	**110.00**

ILLUMINATED DIAL AMMETERS, TYPE AI

3359	300	**$160.00**	3363	1500	**$182.00**
40620	400	**162.00**	3364	2000	**190.00**
3377	600	**164.00**	3366	3000	**198.00**
3361	800	**166.00**	3367	4000	**215.00**
3362	1000	**168.00**	40621	6000	**300.00**

*The price includes the shunt.

Orders must always specify the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.

Approximate shipping weight: 15 to 800 Amp. with shunt, 1 in a box, 65 lbs.; 2 in a box, 115 lbs.; 4 in a box, 150 lbs. Meters of larger capacities are shipped without shunts.

SWITCHBOARD INSTRUMENTS

Thomson Astatic Instruments for Continuous Current Switchboards
Voltmeters, Types A and AI



ASTATIC VOLTMETER
TYPE AI
Illuminated Dial



ASTATIC VOLTMETER
TYPE A
For Feeder Circuits

Illuminated Dial Voltmeters Type AI			Feeder Type Voltmeters Type A		
Cat. No.	Capacity Volts	List Price	Cat. No.	Capacity Volts	List Price
3398	100	**$150.00**	3396	100	**$70.00**
3399	175	**154.00**	3397	175	**78.00**
3370	350	**158.00**	3357	350	**82.00**
3371	750	**162.00**	3358	750	**92.00**



THOMSON ILLUMINATED DIAL ASTATIC VOLTMETER
WITH POLARITY INDICATOR

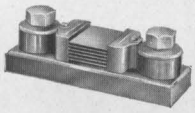
When Illuminated Dial Astatic Instruments are required to indicate reversal of polarity they should be ordered "with polarity indicator." For this an extra charge, **$2.50 net each,** is made. These instruments are not carried in stock.

With proper polarity the indicator does not show. When the polarity is reversed the red disk swings to the center of the scale.

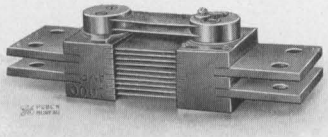
Orders must always specify the excitation voltage of the circuit on which the instrument is to be used. Ordering by catalogue number and rated capacity is not sufficient.

Approximate shipping weight: 1 in a box, 65 lbs.; 2 in a box, 115 lbs.; 4 in a box, 150 lbs.

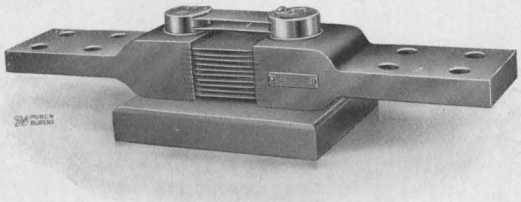
SWITCHBOARD INSTRUMENTS



FORM 2 SHUNT
75 to 800 Amperes



FORM 1 SHUNT WITH THERMO-ELECTRIC ATTACHMENT
1000 to 4000 Amperes



FORM 2 SHUNT WITH THERMO-ELECTRIC ATTACHMENT
1000 to 4000 Amperes

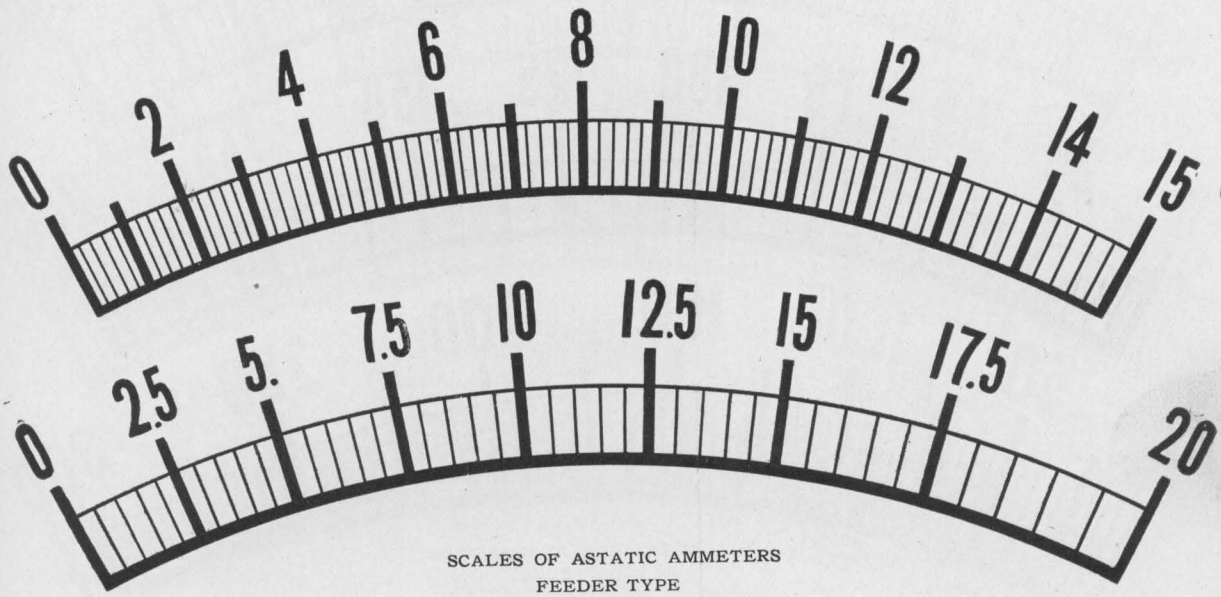
Shunts for Astatic Instruments

Two standard forms of shunts are manufactured for use in connection with Thomson Astatic Instruments. The general characteristics of these two types are shown in the accompanying illustrations. The Form 2 shunt is known as the "Supply Shunt," and will be furnished with all astatic instruments ordered individually unless the other form of shunt is specified. The Form 1 shunt is known as the "Switchboard Shunt," and will be furnished on all orders for complete switchboards or complete switchboard equipments unless the other form of shunt is specified.

Thermo-Electric Device for Direct Current Ammeter Shunts

All shunts in excess of 1000 amperes are provided with thermo-electric attachments. This prevents the superimposing of secondary thermo-electric currents upon the primary current, which are due to the fall of potential in the shunt and the amount of which fixes the value of the indication of the instrument. Ammeter shunts with this attachment will be found free from temperature errors due to generation of thermo-electric current.

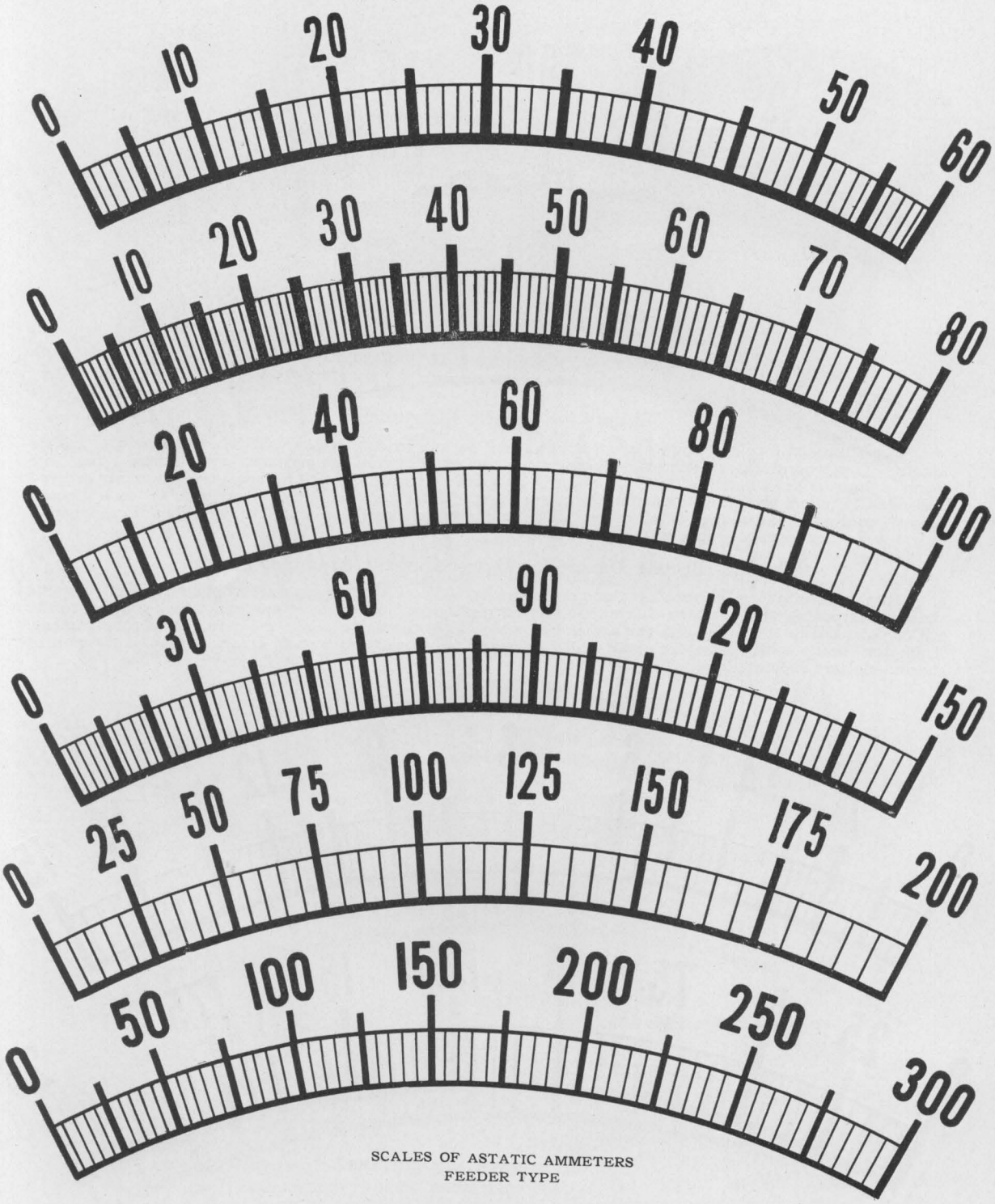
Type A



SCALES OF ASTATIC AMMETERS
FEEDER TYPE

SWITCHBOARD INSTRUMENTS

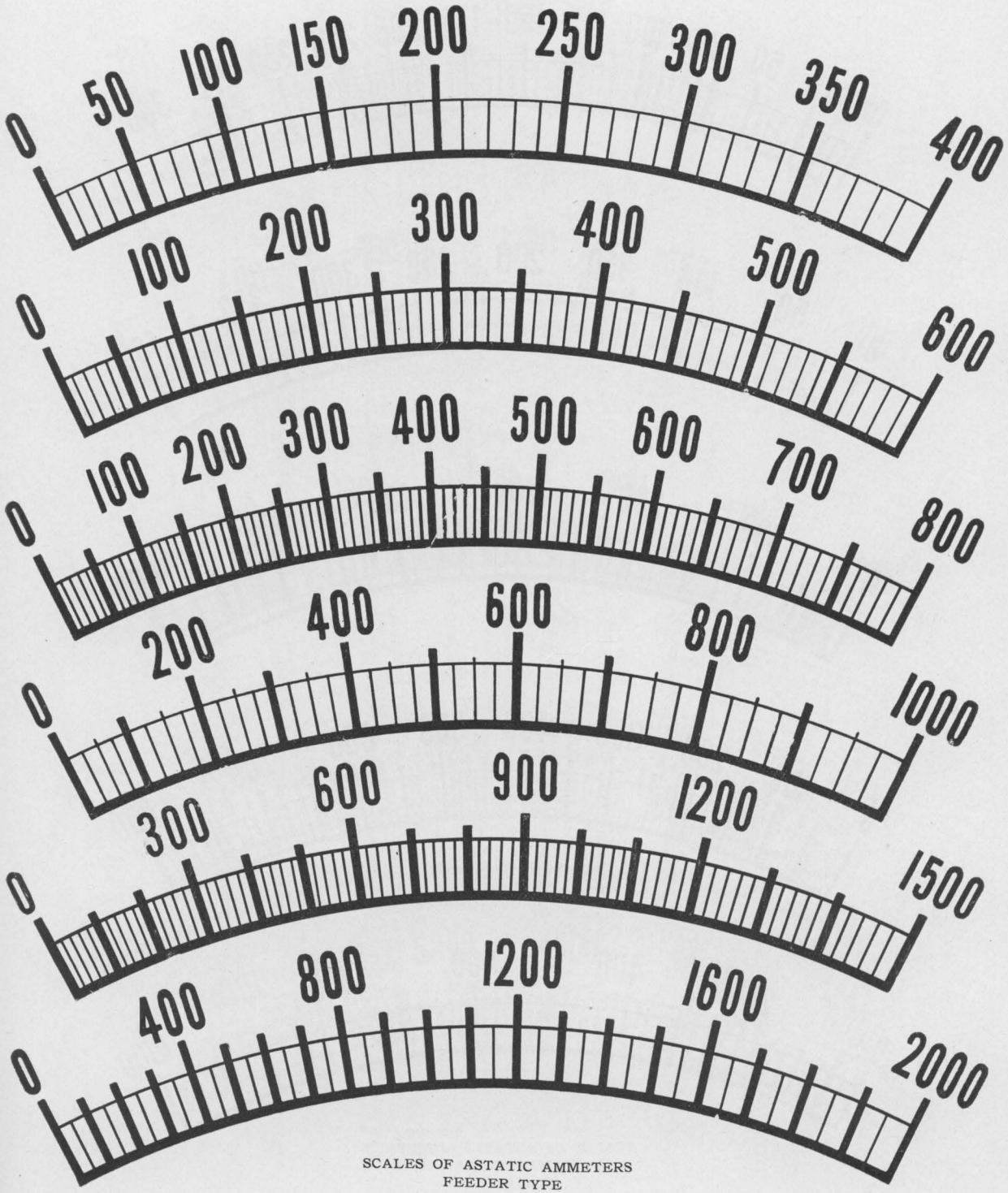
Type A



SCALES OF ASTATIC AMMETERS
FEEDER TYPE

SWITCHBOARD INSTRUMENTS

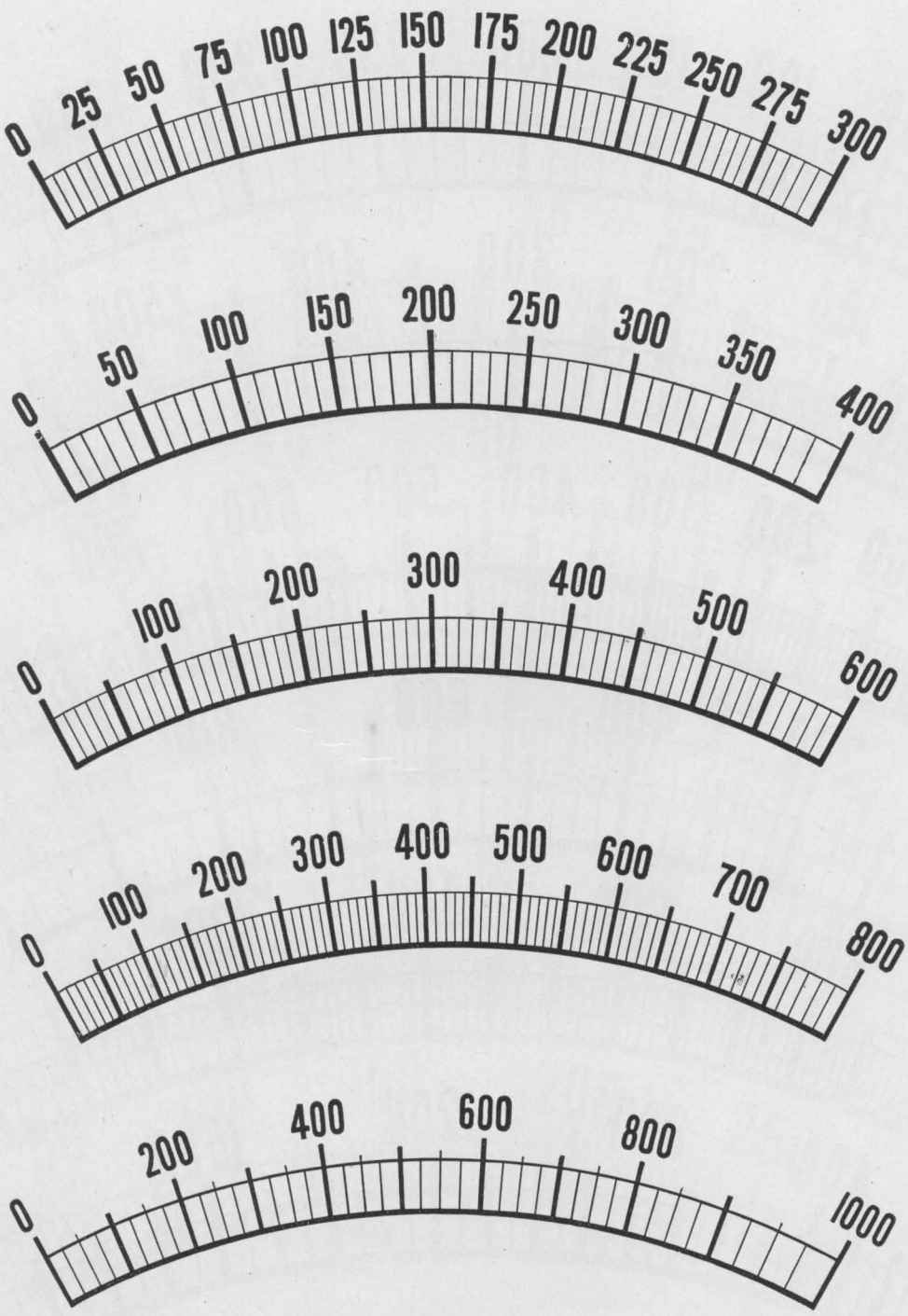
Type A



SCALES OF ASTATIC AMMETERS
FEEDER TYPE

SWITCHBOARD INSTRUMENTS

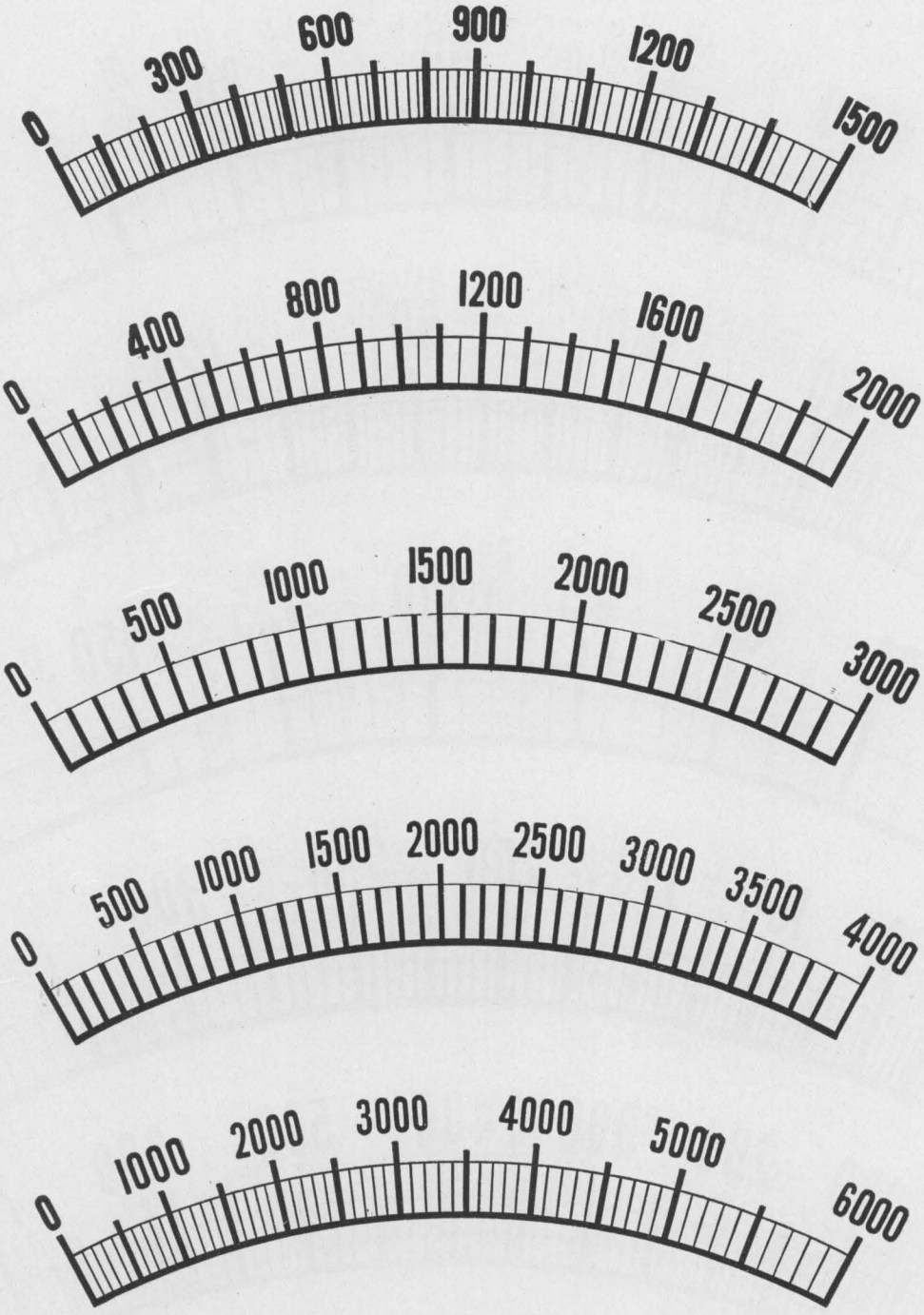
Type AI



SCALES OF ASTATIC AMMETERS
ILLUMINATED DIAL TYPE
(One-Half Size)

SWITCHBOARD INSTRUMENTS

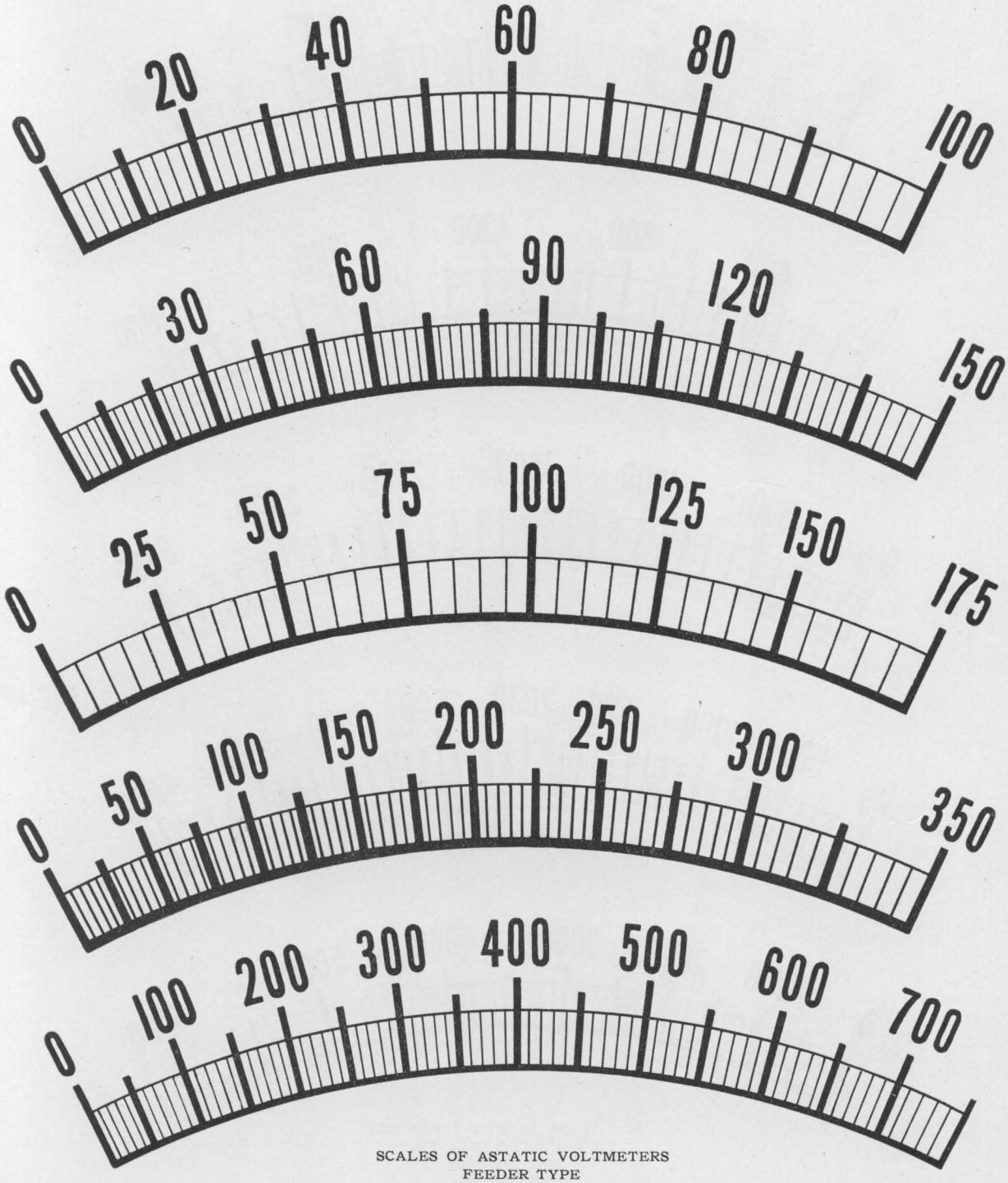
Type AI



SCALES OF ASTATIC AMMETERS
ILLUMINATED DIAL TYPE
(One-Half Size)

SWITCHBOARD INSTRUMENTS

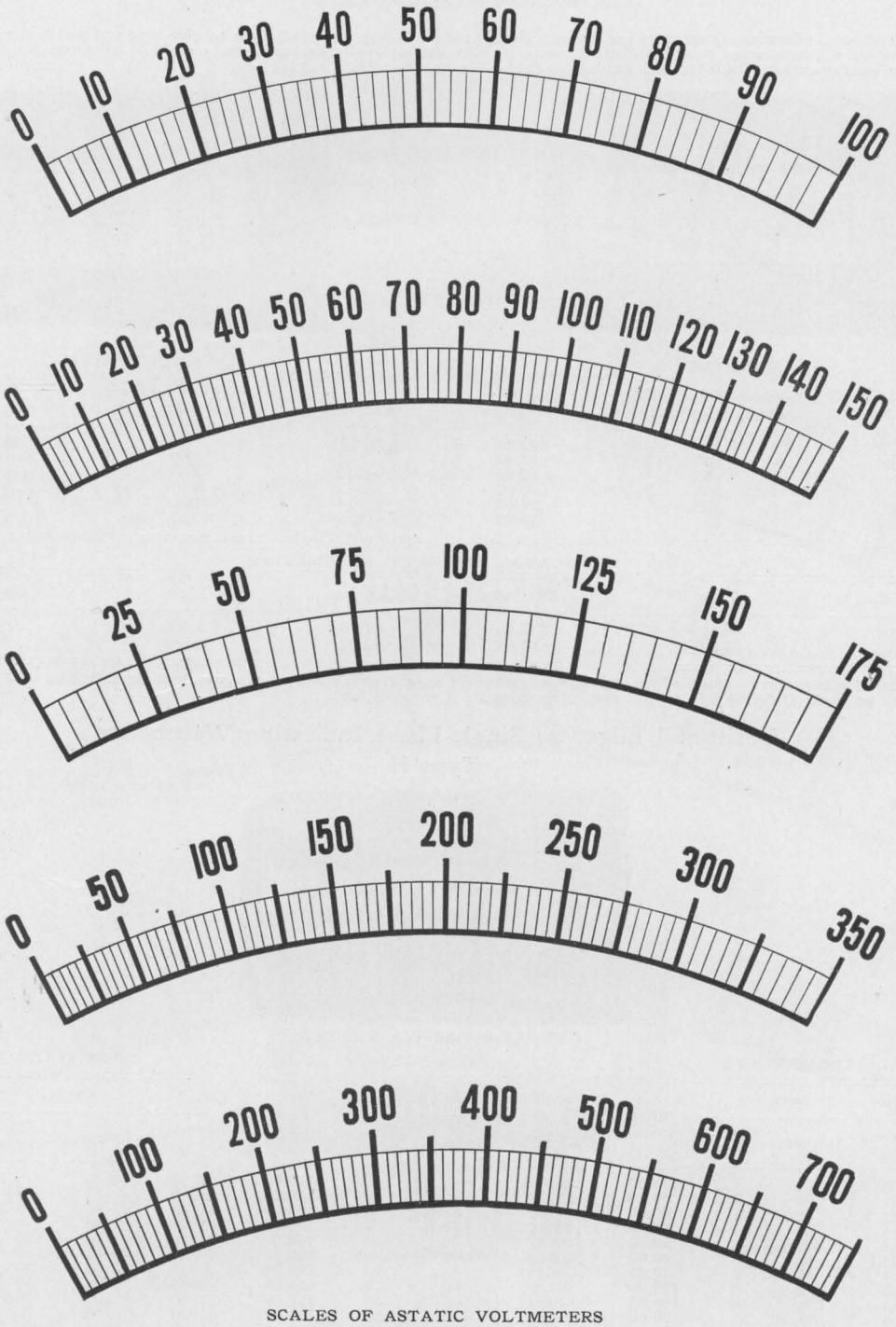
Type A



SCALES OF ASTATIC VOLTMETERS
FEEDER TYPE

SWITCHBOARD INSTRUMENTS

Type AI

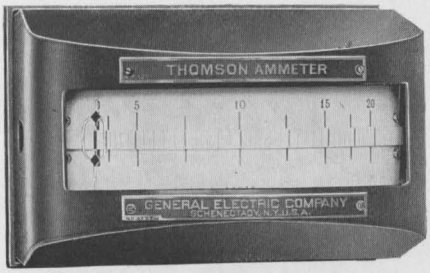


SCALES OF ASTATIC VOLTMETERS
ILLUMINATED DIAL TYPE
(One-Half Size)

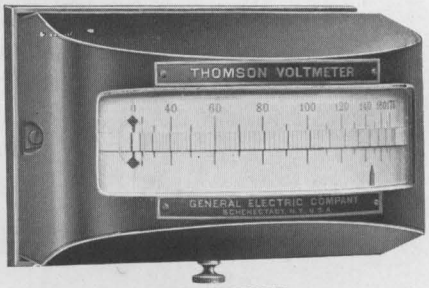
SWITCHBOARD INSTRUMENTS

Horizontal Edgewise Ammeters, Voltmeters Single-Phase Wattmeters, Type H

All horizontal edgewise instruments are exceedingly accurate and may be relied upon to give long and satisfactory service. The ammeters, voltmeters and wattmeters are interchangeable on direct or alternating current circuits of any frequency. These instruments are made for back connection only. The standard finish is dull black.



AMMETER



VOLTMETER

HORIZONTAL EDGEWISE AMMETERS

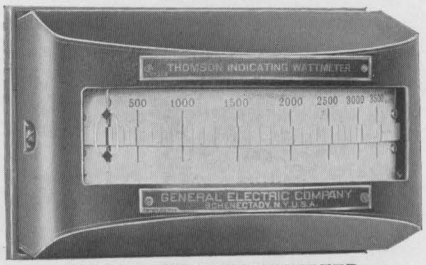
Cat. No.	Ampere Capacity	List Price	Cat. No.	Ampere Capacity	List Price
28776	5	$60.00	40637	60	$60.00
51007	10	60.00	40638	80	60.00
51140	15	60.00	51012	100	65.00
40634	20	60.00	51013	150	65.00
40635	30	60.00	51014	200	65.00
40636	40	60.00	40639	300	85.00

HORIZONTAL EDGEWISE VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
51020	175	$75.00	40640	500	$80.00
51021	350	75.00	51022	750	80.00

Orders for instruments intended for use with transformers must always specify the frequency of the circuit on which the instrument is to be used. Ordering by Cat. No. and rating capacity is not sufficient.

Horizontal Edgewise Single-Phase Indicating Wattmeters Type H



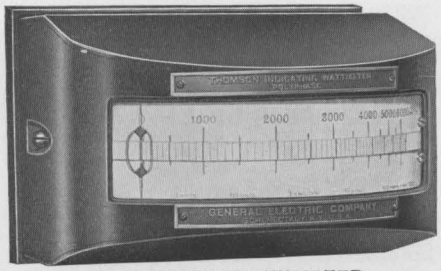
SINGLE-PHASE WATTMETER

100-125 VOLTS				200-250 VOLTS				500-600 VOLTS			
Cat. No.	Capacity		List Price	Cat. No.	Capacity		List Price	Cat. No.	Capacity		List Price
Alternating Current	Amperes	Kilowatts		Alternating Current	Amperes	Kilowatts		Alternating Current	Amperes	Kilowatts	
28778	5	.5	$90.00	28780	5	1	$100.00	28782	5	2.5	$110.00
28784	10	1	90.00	28786	10	2	100.00	28788	10	5	110.00
51142	15	1.5	90.00	51144	15	3	100.00	51146	15	7.5	110.00
40641	20	2	90.00	40646	20	4	100.00	40651	20	10	110.00
40642	30	3	90.00	40647	30	6	100.00	40652	30	15	110.00
40643	40	4	90.00	40648	40	8	100.00	40653	40	20	110.00
40644	60	6	90.00	40649	60	12	100.00	40654	60	30	110.00
40645	80	8	100.00	40650	80	16	110.00	40655	80	40	120.00
51025	100	10	100.00	51030	100	20	110.00	51035	100	50	120.00
51026	150	15	100.00	51031	150	30	110.00	51036	150	75	120.00
51027	200	20	100.00	51032	200	40	110.00	51037	200	100	120.00

Orders for instruments intended for use with transformers must always specify the frequency of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.
Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

SWITCHBOARD INSTRUMENTS

Horizontal Edgewise Polyphase Indicating Wattmeters
Type H

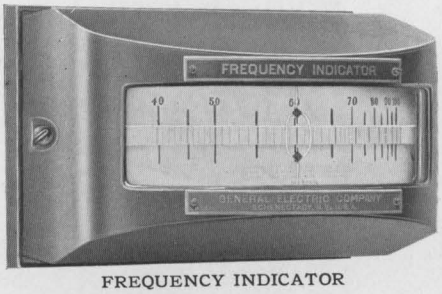


POLYPHASE WATTMETER

100–125 Volts				200–250 Volts			
Cat. No.	Ampere Capacity	Kilowatts	List Price	Cat. No.	Ampere Capacity	Kilowatts	List Price
31808	5	1	**$125.00**	31813	5	2	**$135.00**
31809	10	2	**125.00**	31814	10	4	**135.00**
31810	15	3	**125.00**	31815	15	6	**135.00**
40656	20	4	**125.00**	40660	20	8	**135.00**
40657	30	6	**125.00**	40661	30	12	**135.00**
40658	40	8	**125.00**	40662	40	16	**135.00**
40659	60	12	**125.00**	40663	60	24	**135.00**
			500-600 Volts				
31818	5	5	**$145.00**	40665	30	30	**$145.00**
31819	10	10	**145.00**	40666	40	40	**145.00**
31820	15	15	**145.00**	40667	60	60	**145.00**
40664	20	20	**145.00**				

Orders for instruments intended for use with transformers must always specify the frequency and the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.
Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

Horizontal Edgewise Frequency Indicators
Type H



FREQUENCY INDICATOR

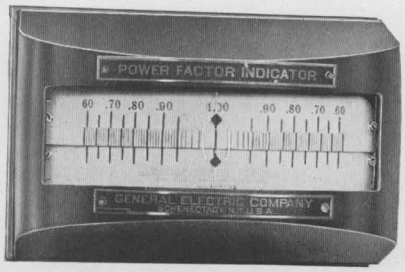
Voltage	Cat. No.	Frequency Cycles	List Price
100–125 volts	51128	25	**$100.00**
100–125 volts	51129	40	**100.00**
100–125 volts	51130	60	**100.00**
100–125 volts	51131	125	**100.00**
100–125 volts	51132	133	**100.00**

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

SWITCHBOARD INSTRUMENTS

Horizontal Edgewise Power Factor Indicator Type H

(For Balanced Circuits Only)



POWER FACTOR INDICATOR

This device accurately indicates the power factor of balanced polyphase systems. The convenience of reading a single instrument in comparison with making a computation from the simultaneous readings of an Indicating Wattmeter, Ammeter and Voltmeter, is self-evident.

This instrument will be found desirable in connection with generating and sub-station systems operating Synchronous Converters (rotaries) as the operation of these machines may be maintained at minimum input by reading one instrument only.

The instrument is manufactured with scale .60–1.00–.60, showing 60% power factor leading and lagging.

THREE-PHASE, THREE-WIRE CIRCUITS

Cat. No.	Ampere Capacity	Volts	List Price	Cat. No.	Ampere Capacity	Volts	List Price
23697	5	110	$90.00	40671	60	110	$100.00
23698	10	110	90.00	40672	80	110	100.00
23699	15	110	90.00	23781	100	110	110.00
40668	20	110	100.00	23782	150	110	110.00
40669	30	110	100.00	23783	200	110	110.00
40670	40	110	100.00				

TWO-PHASE, THREE-WIRE CIRCUITS

27513	5	110	$90.00	40676	60	110	$100.00
27514	10	110	90.00	40677	80	110	100.00
27515	15	110	90.00	27519	100	110	110.00
40673	20	110	100.00	27520	150	110	110.00
40674	30	110	100.00	27521	200	110	110.00
40675	40	110	100.00				

TWO-PHASE, FOUR-WIRE CIRCUITS

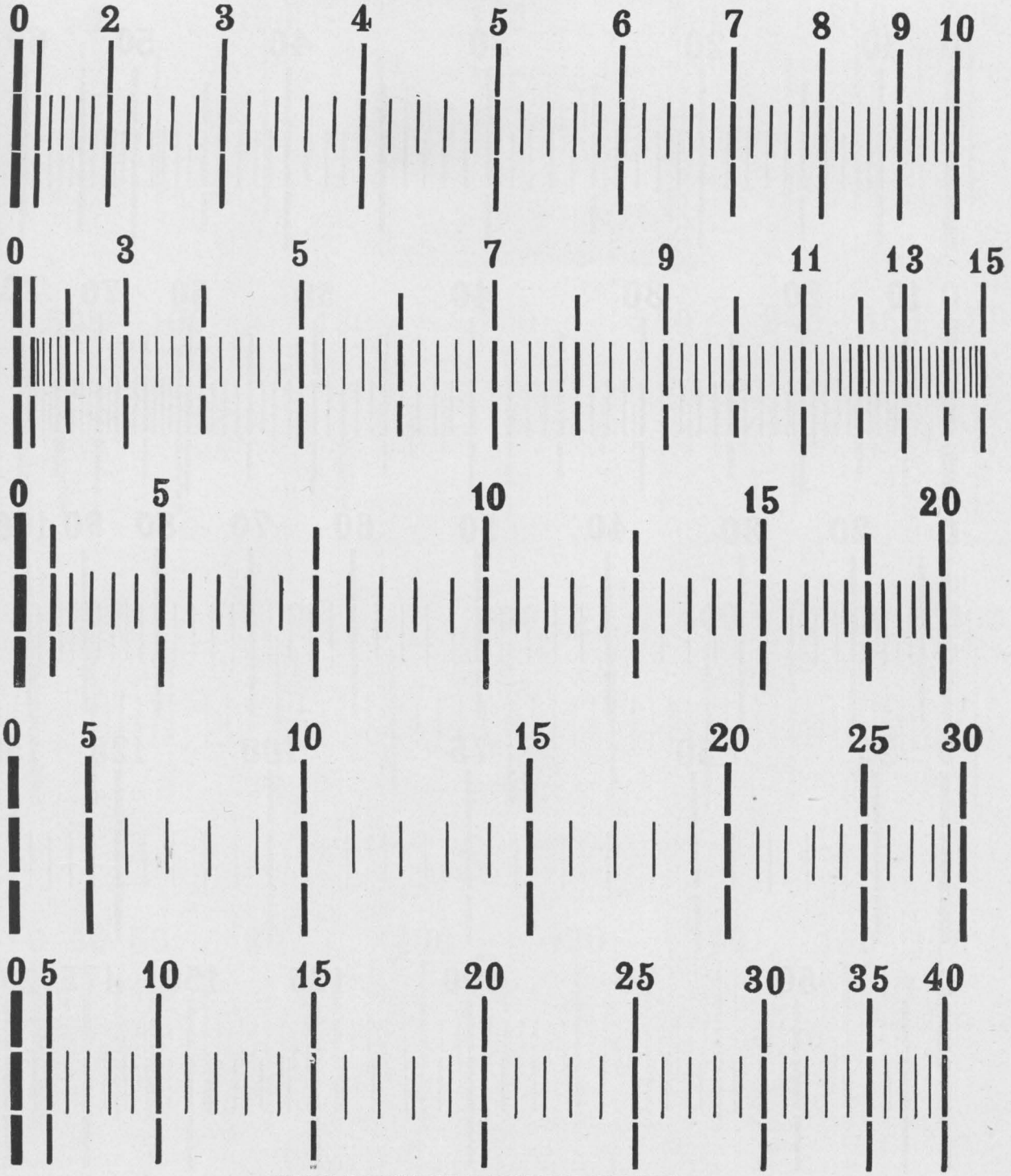
23784	5	110	$90.00	40681	60	110	$100.00
23785	10	110	90.00	40682	80	110	100.00
23786	15	110	90.00	23790	100	110	110.00
40678	20	110	100.00	23791	150	110	110.00
40679	30	110	100.00	23792	200	110	110.00
40680	40	110	100.00				

Orders for instruments intended for use with transformers must always specify the frequency and the voltage of the circuit on which the instrument is to be used. Ordering by Cat. No. and rated capacity is not sufficient.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

SWITCHBOARD INSTRUMENTS

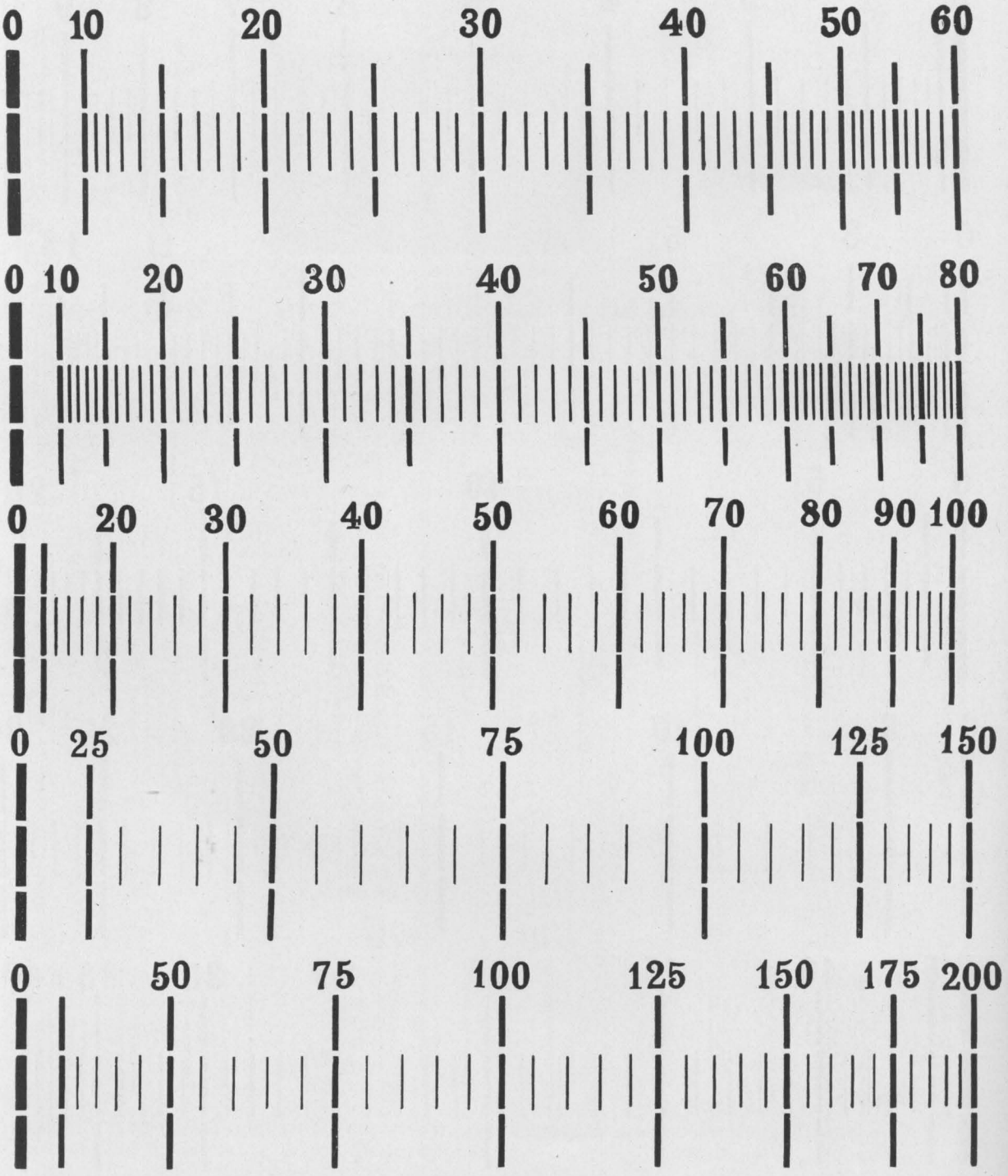
Type H



SCALES OF HORIZONTAL EDGEWISE AMMETERS

SWITCHBOARD INSTRUMENTS

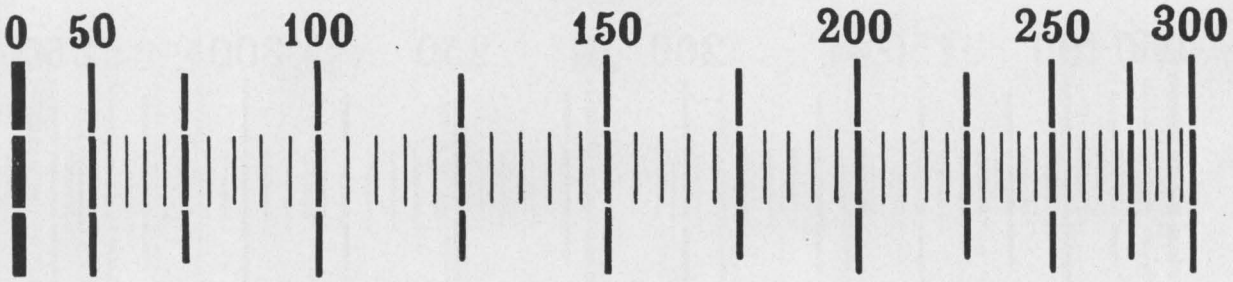
Type H

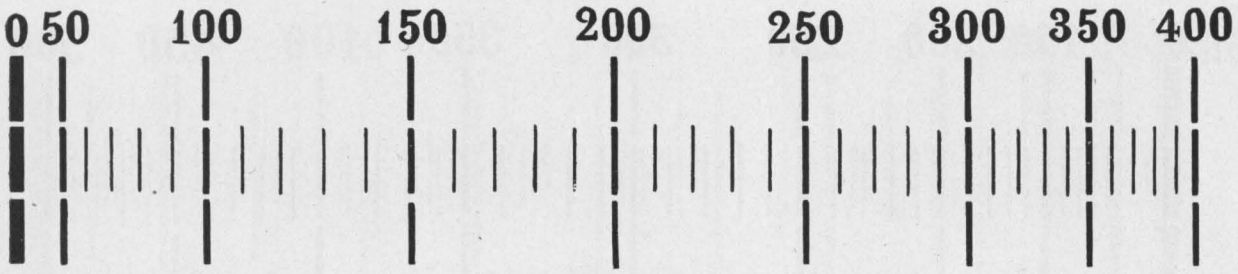


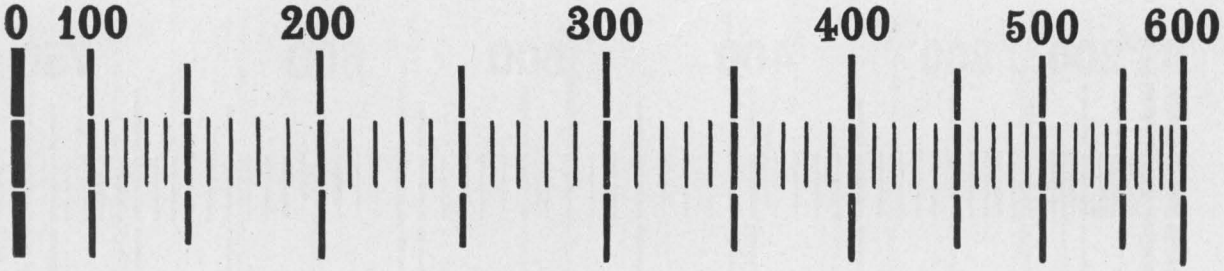
SCALES OF HORIZONTAL EDGEWISE AMMETERS

SWITCHBOARD INSTRUMENTS

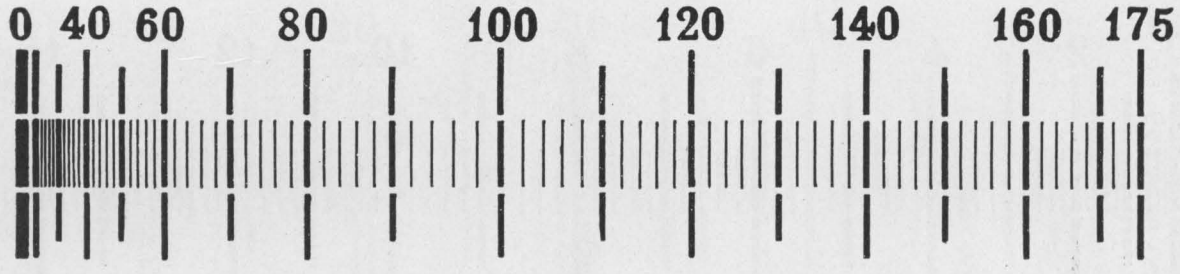
Type H







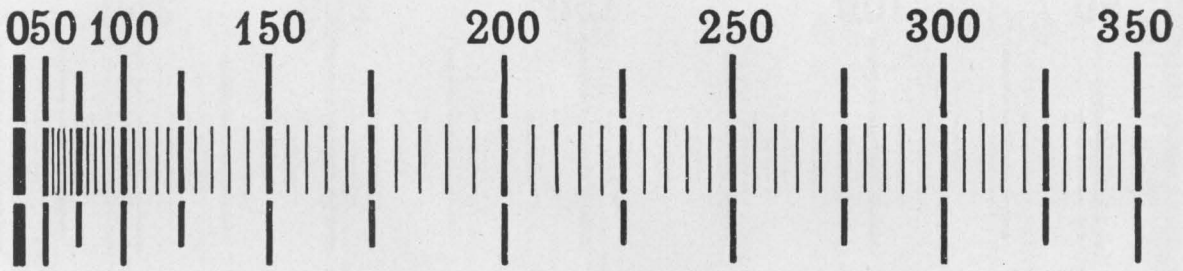
SCALES OF HORIZONTAL EDGEWISE AMMETERS



SCALES OF HORIZONTAL EDGEWISE VOLTMETERS

SWITCHBOARD INSTRUMENTS

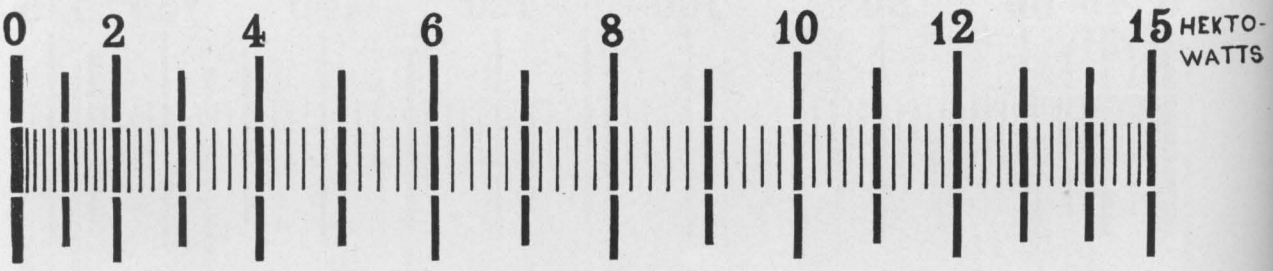
Type H







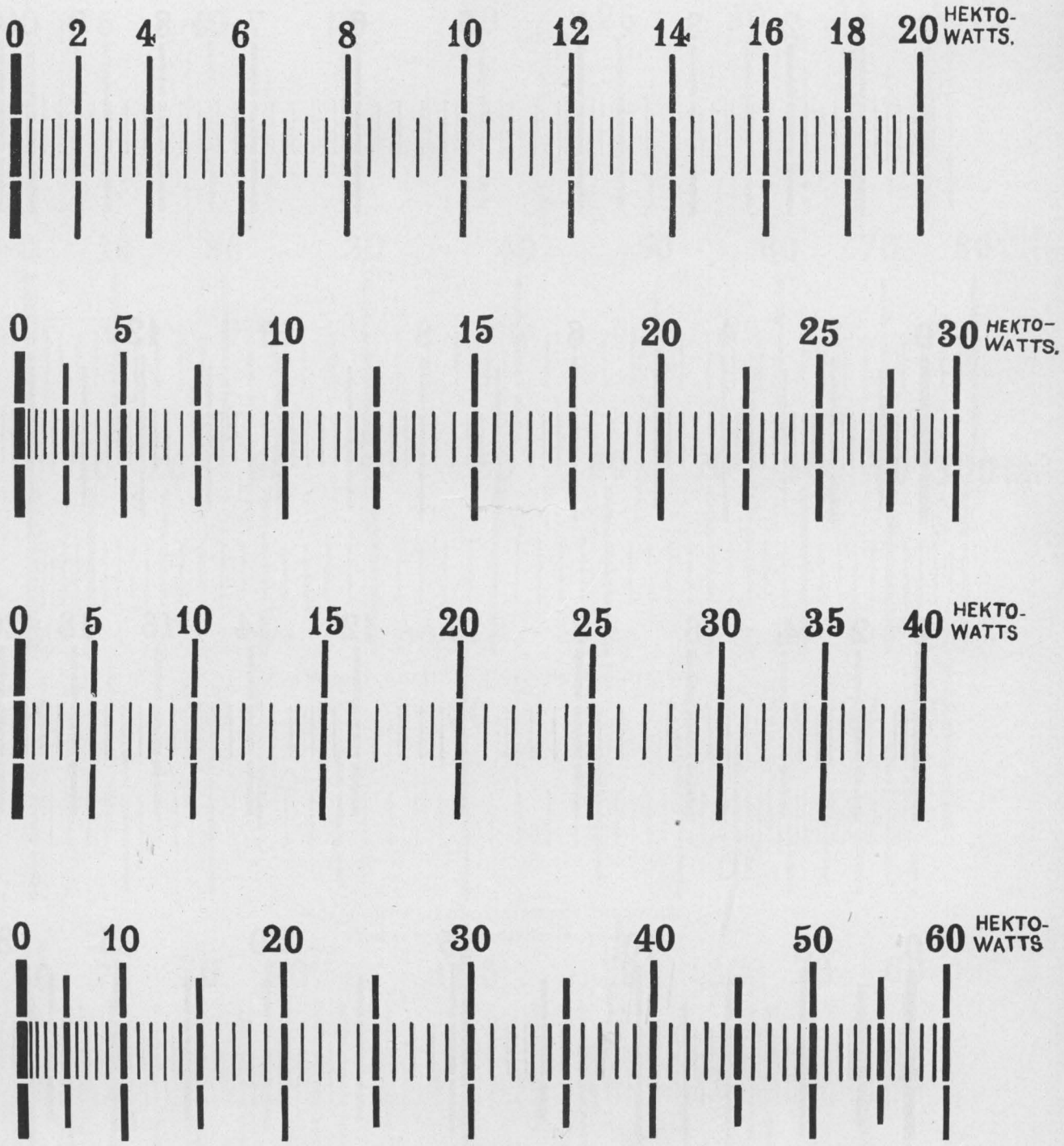
SCALES OF HORIZONTAL EDGEWISE VOLTMETERS



SCALES OF HORIZONTAL EDGEWISE WATTMETERS

SWITCHBOARD INSTRUMENTS

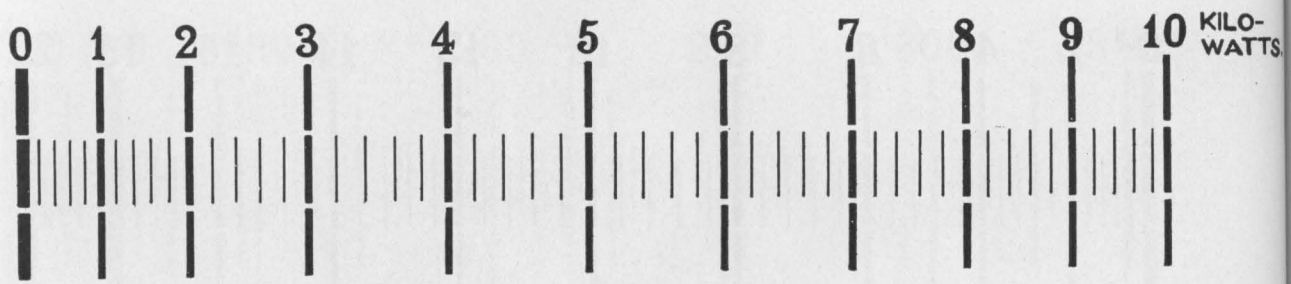
Type H

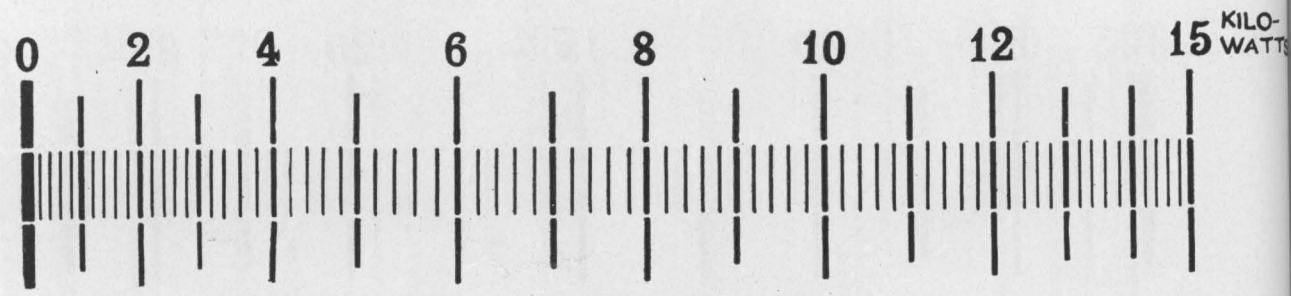


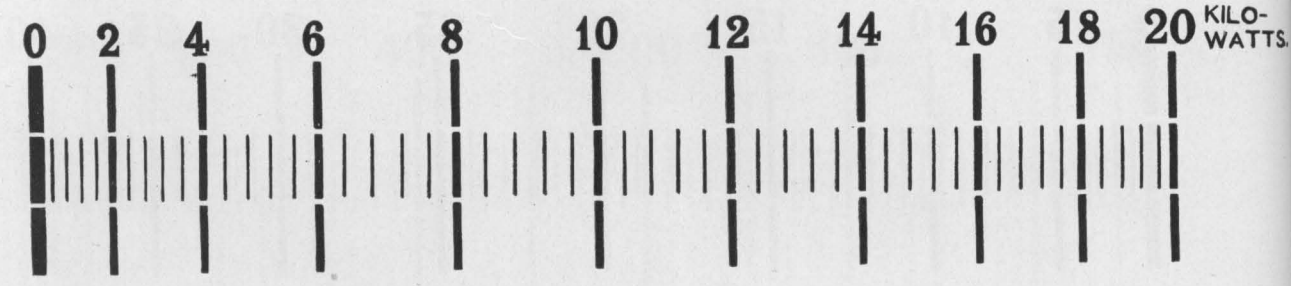
SCALES OF HORIZONTAL EDGEWISE WATTMETERS

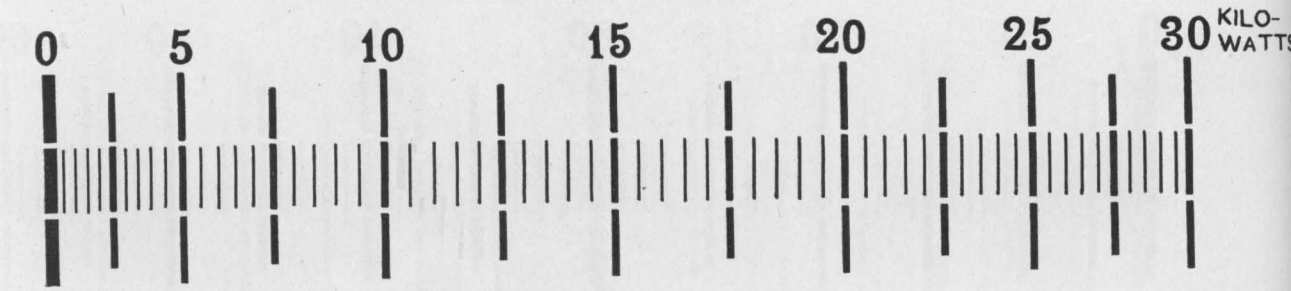
SWITCHBOARD INSTRUMENTS

Type H





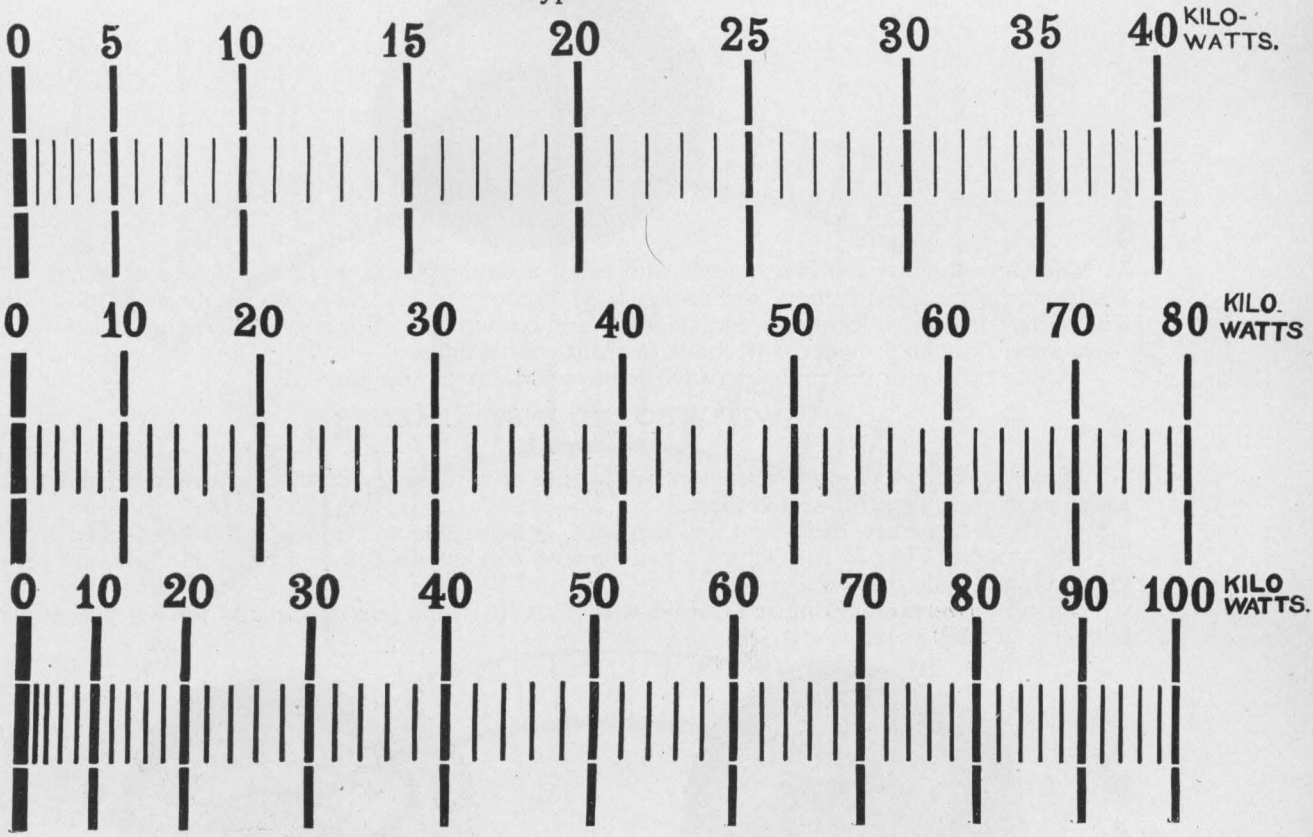




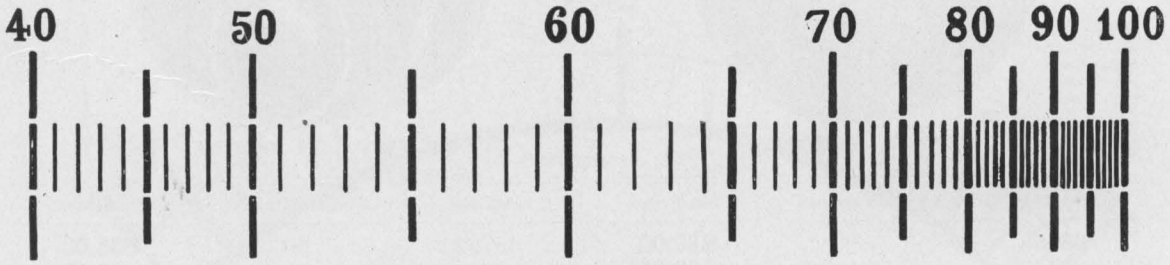
SCALES OF HORIZONTAL EDGEWISE WATTMETERS

SWITCHBOARD INSTRUMENTS

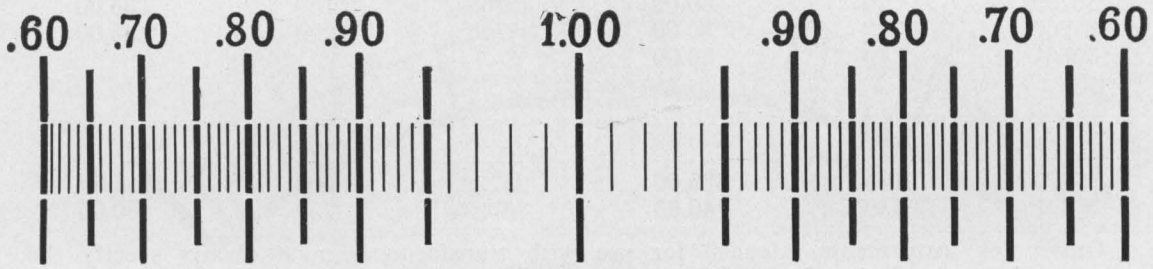
Type H



SCALES OF HORIZONTAL EDGEWISE WATTMETERS

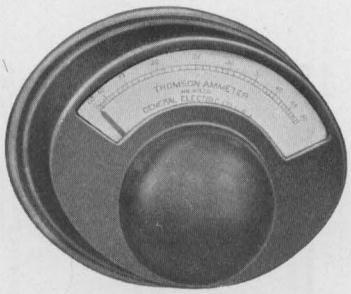


SCALE OF 60 CYCLE FREQUENCY INDICATOR
(This Scale Reads in Cycles per Second)



SCALE OF POWER FACTOR INDICATOR

POCKET INSTRUMENTS CALIBRATED FOR SWITCHBOARD USE



For mercury arc rectifier panels and small isolated plants, such as house and yacht installations, a modified form of the pocket type of Ammeter and Voltmeter, calibrated for use in a vertical position, is compact, satisfactory and economical. For this service, the pocket type of Ammeter can be provided with back or front connections.

A description of instruments of this class will be found on page 47.

SWITCHBOARD INSTRUMENTS

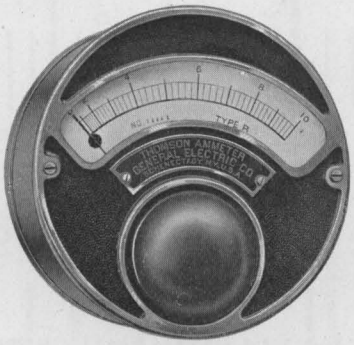
Type R

Type R Ammeters and Voltmeters are for use on alternating or direct current circuits, and are furnished in back connected form.

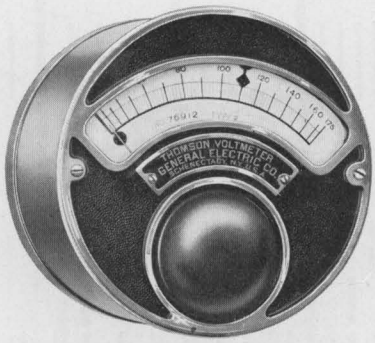
They are accurate, dead-beat and compact, and are shielded from stray field effects.

10 Ampere Type R Ammeters, when desired for use on 6.6 or 7.5 arc circuits, are provided with a scale marker.

Current transformers must be used with Type R Ammeters on circuits having potentials in excess of 2500 volts.



TYPE R AMMETER



TYPE R VOLTMETER

AMMETERS

Cat. No.	Ampere Capacity	List Price	Cat. No.	Ampere Capacity	List Price
35756	5	**$30.00**	35762	60	**$35.00**
35757	10	**30.00**	35763	80	**35.00**
35758	15	**30.00**	35764	100	**35.00**
35759	20	**30.00**	35765	150	**35.00**
35760	30	**30.00**	35766	200	**35.00**
35761	40	**30.00**			

VOLTMETERS

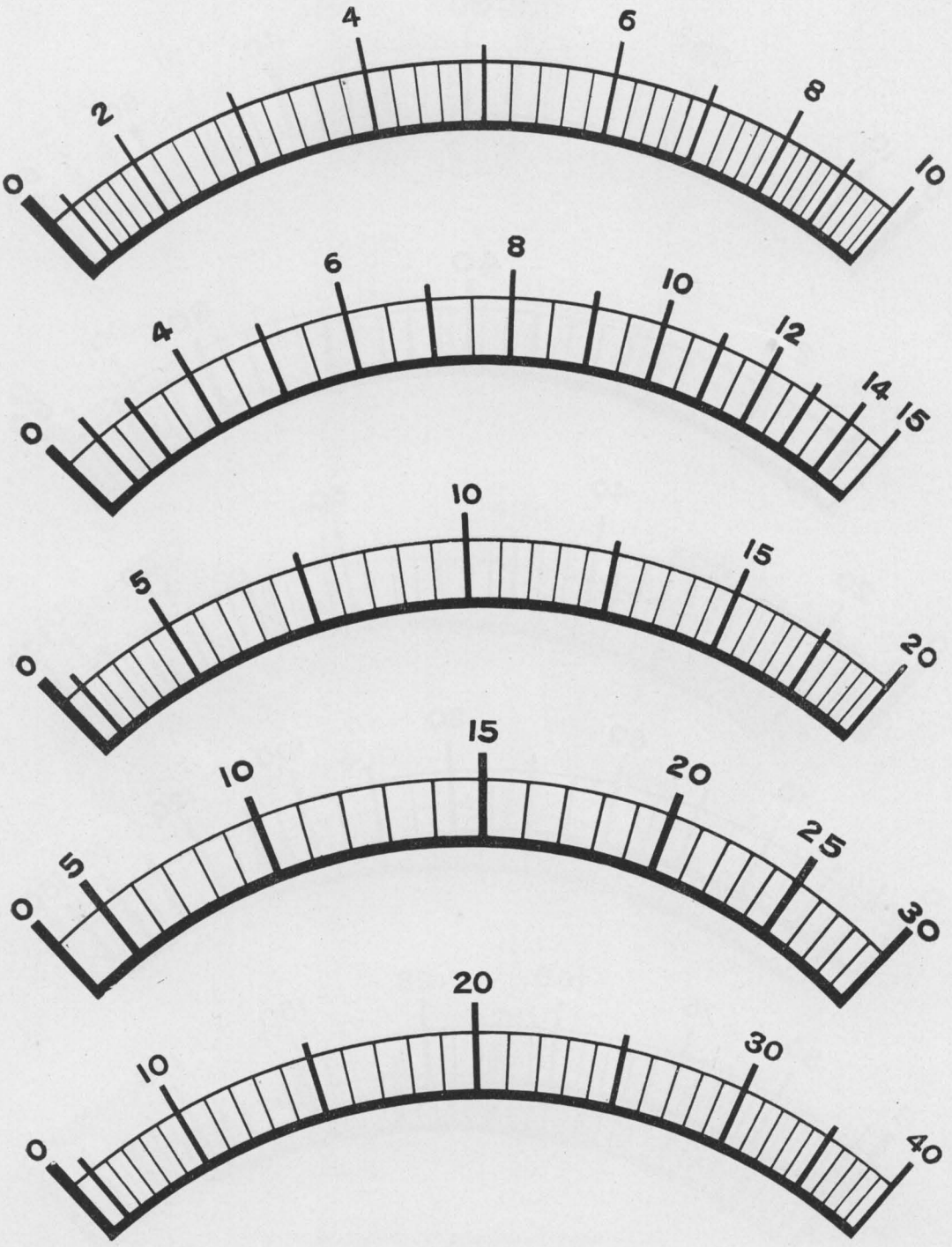
Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
35776	175	**$35.00**	35778	500	**$45.00**
35777	350	**40.00**	35779	750	**50.00**

Orders for instruments intended for use with transformers, must always specify the frequency of the circuit on which the instrument is to be used.

Approximate shipping weight: 1 in a box, 22 lbs.; 2 in a box, 55 lbs.; 4 in a box, 85 lbs.

SWITCHBOARD INSTRUMENTS

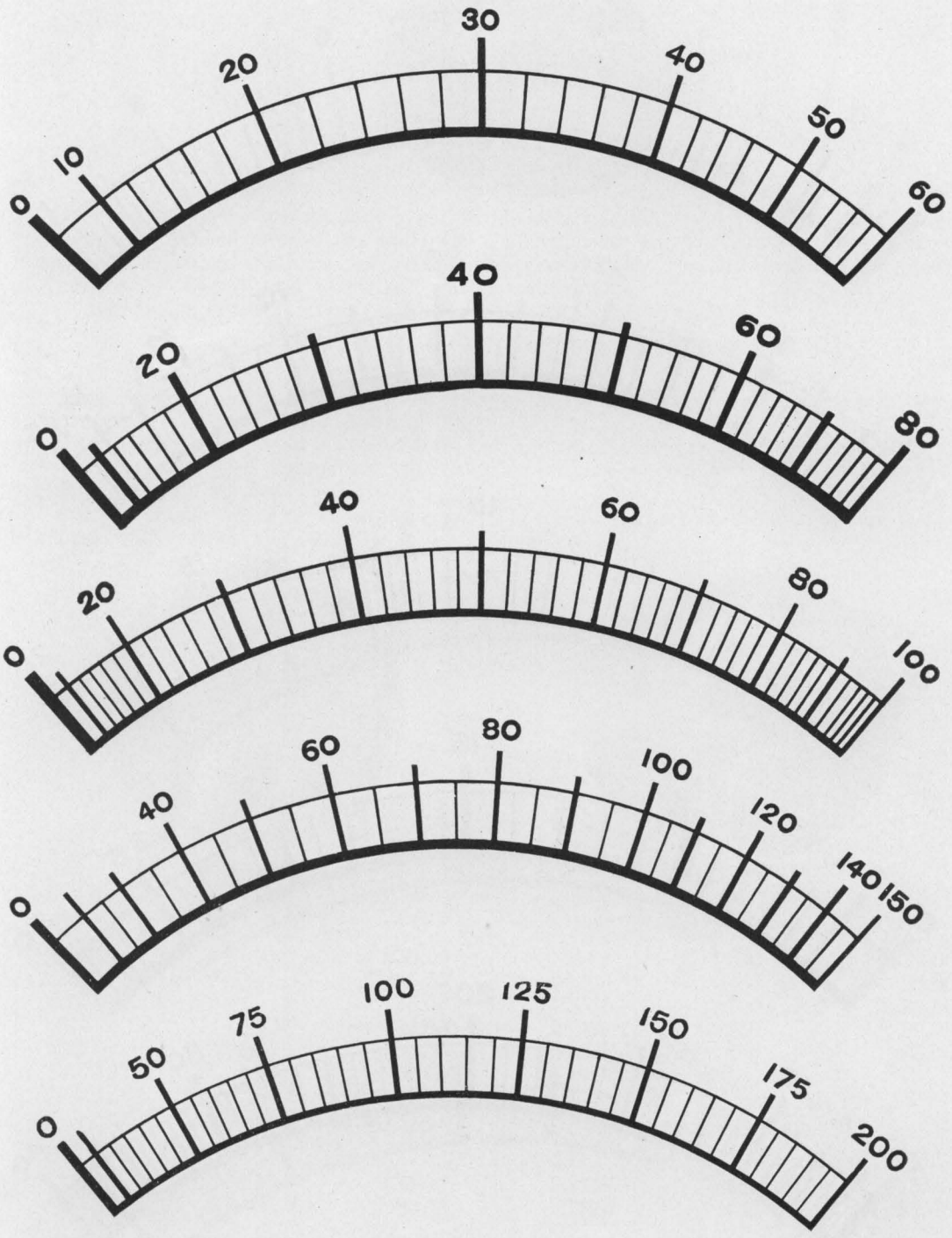
Type R



SCALES OF TYPE R AMMETERS

SWITCHBOARD INSTRUMENTS

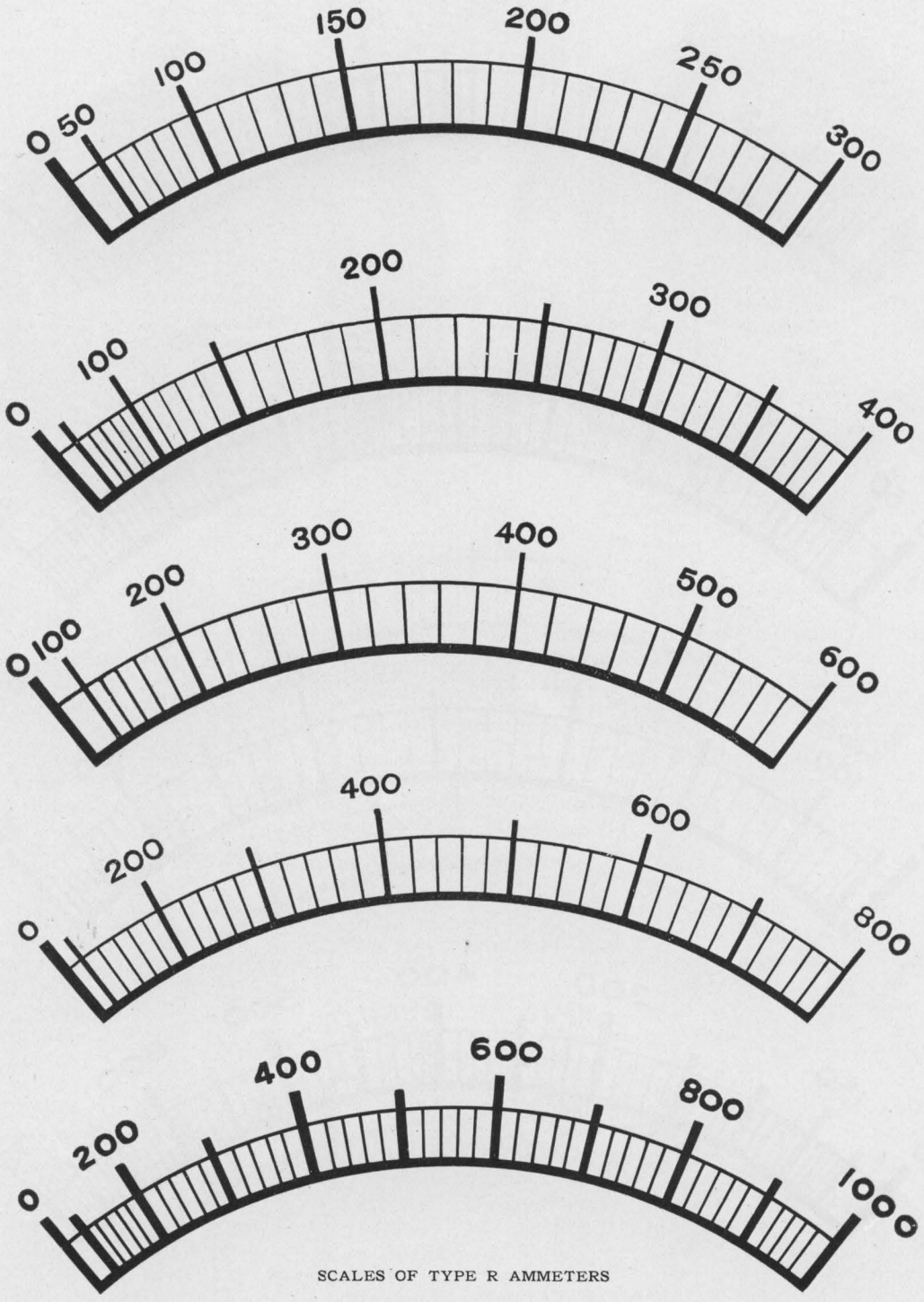
Type R



SCALES OF TYPE R AMMETERS

SWITCHBOARD INSTRUMENTS

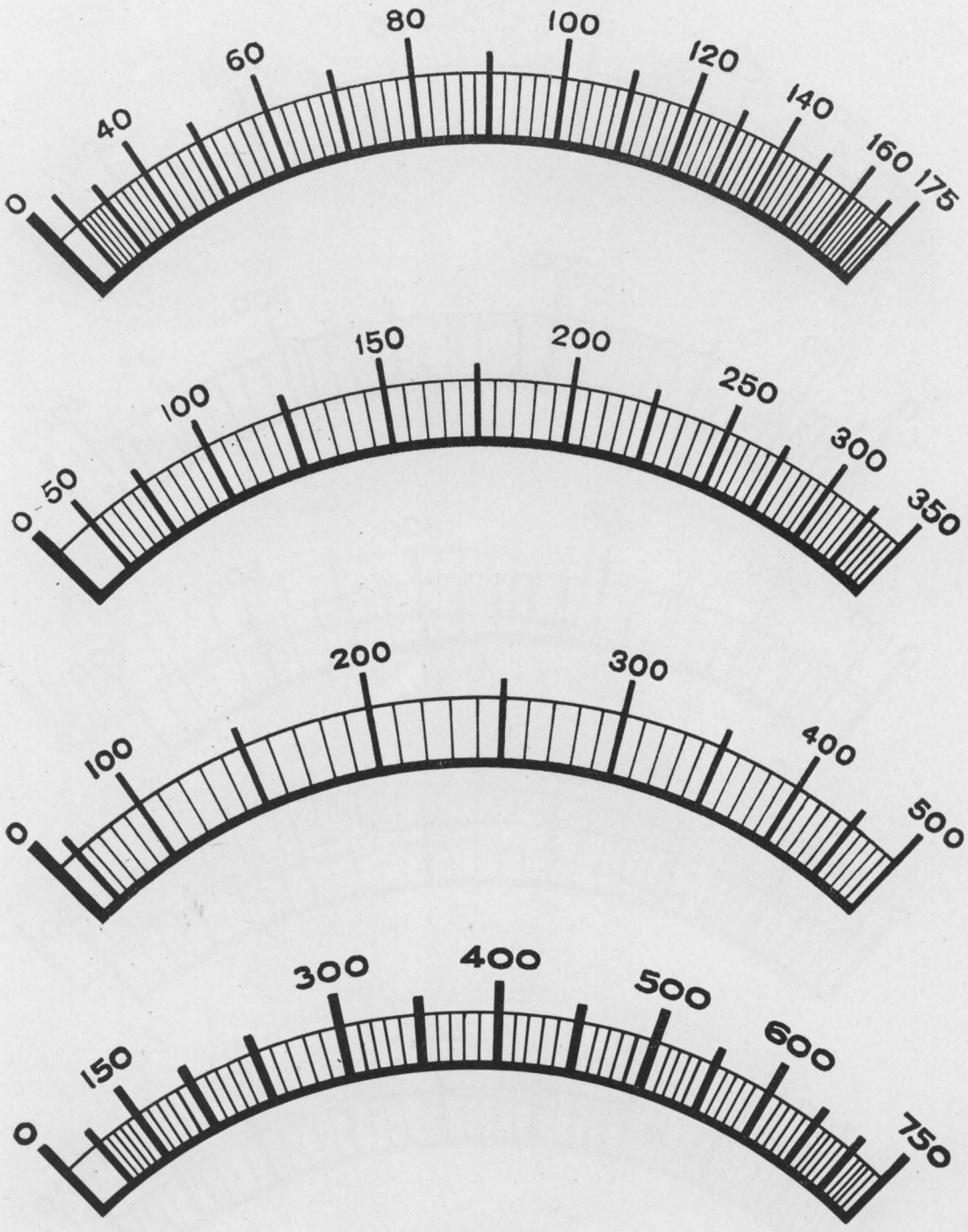
Type R



SCALES OF TYPE R AMMETERS

SWITCHBOARD INSTRUMENTS

Type R



SCALES OF TYPE R VOLTMETERS

SWITCHBOARD INSTRUMENTS

Type B Indicators for Direct Current Circuits



CURRENT INDICATOR



POTENTIAL INDICATOR

Capacities

Type B Potential Indicators are made in the following standard capacities: 75, 150 and 300 volts.

Type B Current Indicators are made in standard capacities up to and including 200 amperes. When desired, the 10 Ampere Current Indicators will be specially insulated and calibrated for use on 6.6 ampere and 9.6 ampere direct current arc circuits.

Connections

Type B Current and Potential Indicators are equipped with standard binding posts located beneath the instrument base, and suitable for either front or back connections.

When desired, instruments can be equipped with studs arranged so as to pass through the panel and allow connections to be made behind the board.

Finish

The standard finish is dull black with raised portions of the case finished in copper.

TYPE B CURRENT INDICATORS

Cat. No.	Ampere Capacity	List Price	Cat. No.	Ampere Capacity	List Price
51000	10	*$20.00	41045	60	*$20.00
41041	15	20.00	41046	80	25.00
41042	20	20.00	51004	100	25.00
41043	30	20.00	51005	150	25.00
41044	40	20.00	51006	200	30.00

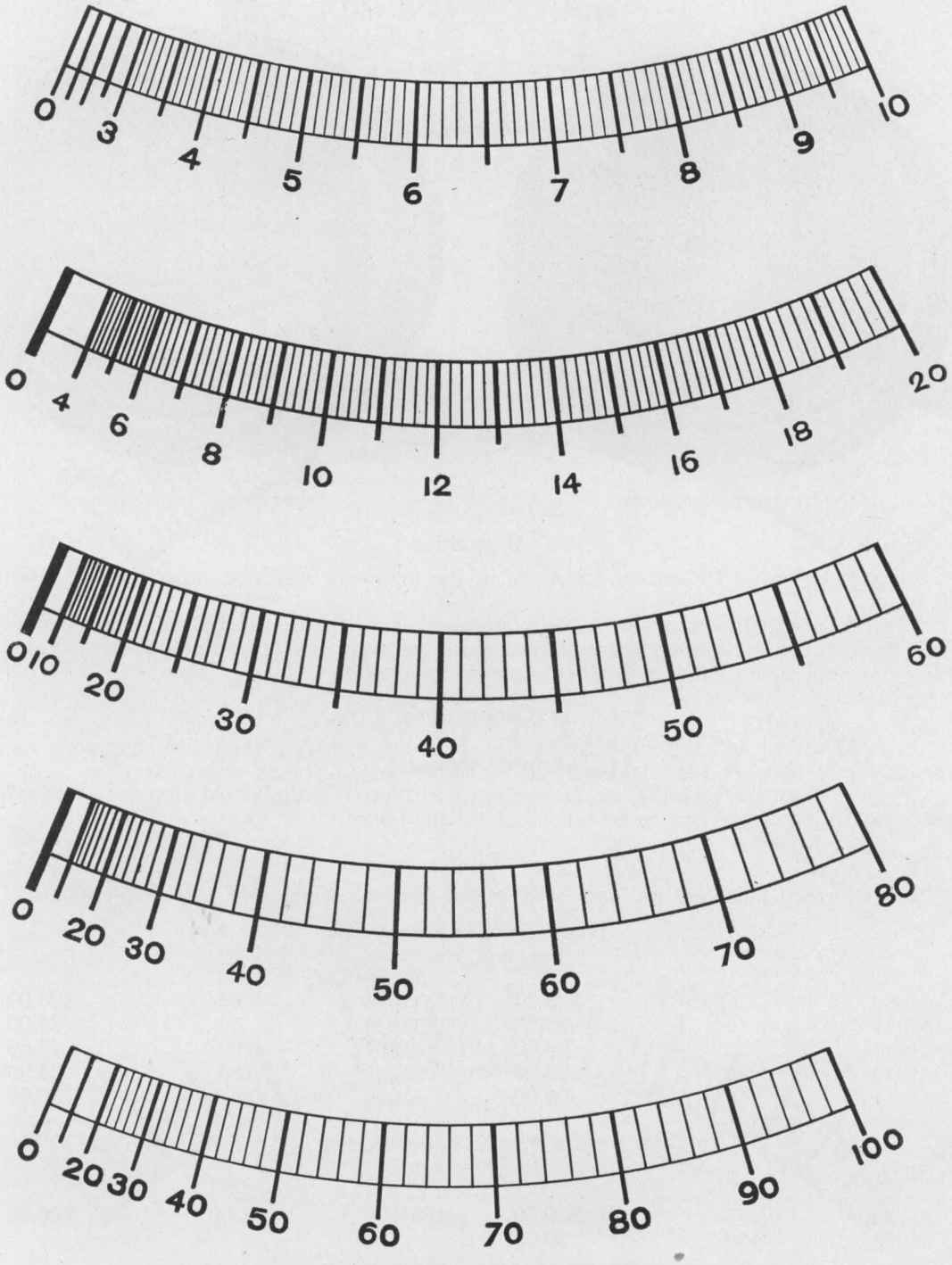
TYPE B POTENTIAL INDICATORS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
51133	75	$30.00	51076	300	$30.00
51075	150	30.00			

*An extra charge of $2.00 list is made when 10 ampere indicators are furnished for arc circuits.
Potential Indicators are furnished with external resistances.
Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 115 lbs.

SWITCHBOARD INSTRUMENTS

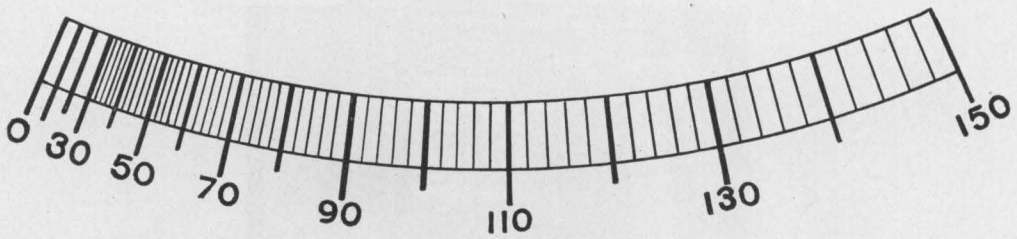
Type B

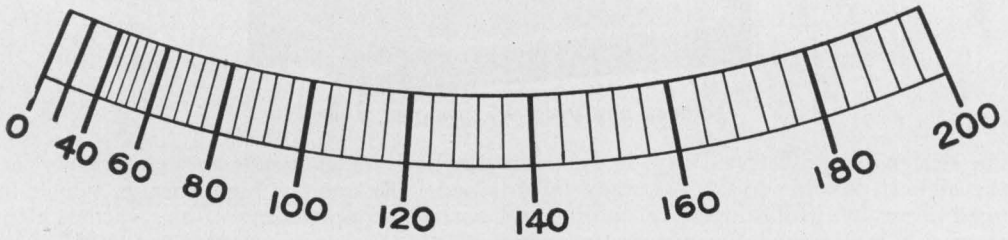


SCALES OF TYPE B CURRENT INDICATORS

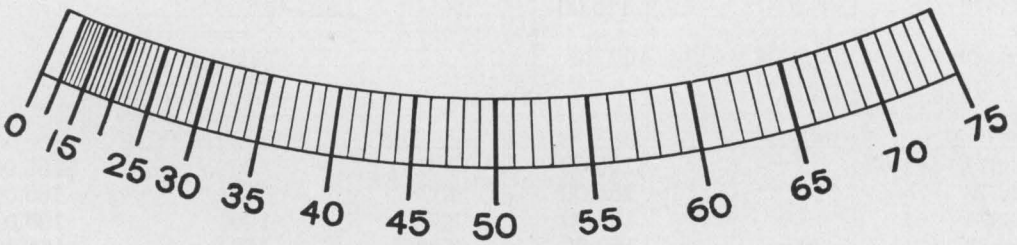
SWITCHBOARD INSTRUMENTS

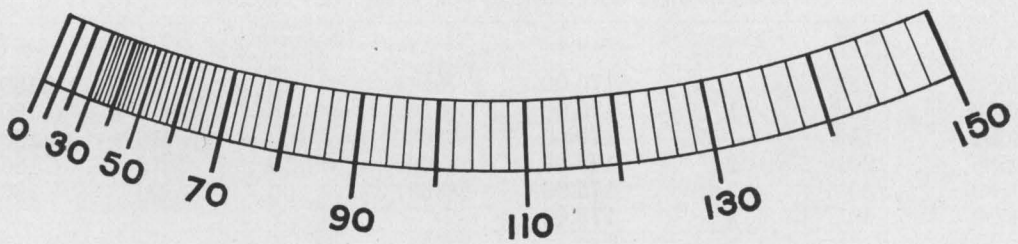
Type B





SCALES OF CURRENT INDICATORS

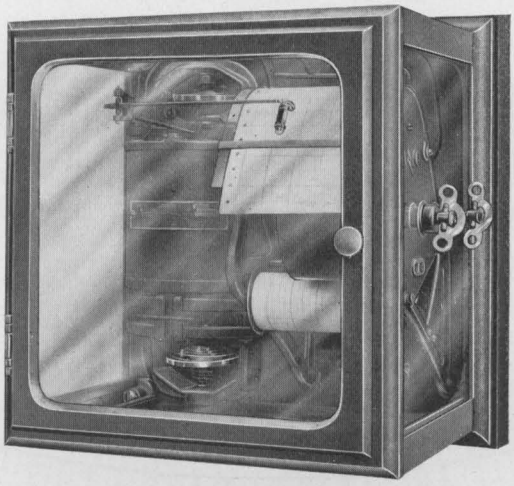




SCALES OF TYPE B POTENTIAL INDICATORS

SWITCHBOARD INSTRUMENTS

Curve Drawing Instruments



CURVE DRAWING WATTMETER, TYPE C

The design of the Curve Drawing Instruments, both mechanically and electrically, is such that the highest possible initial accuracy is obtained. Extremely high torque, which insures continued accuracy, is obtained by careful and correct proportioning of the various elements. While primarily designed for alternating current, the instruments can be used with good results on direct current circuits not exceeding 200 amperes or 750 volts capacity.

VOLTMETERS

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
33669	90–130	**$170.00**	33671	450–650	**$180.00**
33670	180–260	**175.00**			

Approximate shipping weight, 160 lbs.

AMMETERS

Cat. No.	Ampere Capacity	List Price	Cat. No.	Ampere Capacity	List Price
33672	5	**$155.00**	40586	60	**$165.00**
33673	10	**155.00**	40587	80	**165.00**
33674	15	**155.00**	33679	100	**165.00**
40583	20	**160.00**	33680	150	**165.00**
40584	30	**160.00**	33681	200	**165.00**
40585	40	**160.00**			

Approximate shipping weight, 130 lbs.

SINGLE-PHASE WATTMETERS FOR 100-125 VOLT CIRCUIT

Cat. No.	Ampere Capacity	Kilowatt Capacity	List Price	Cat. No.	Ampere Capacity	Kilowatt Capacity	List Price
33682	5	.5	**$170.00**	40591	60	6	**$180.00**
33683	10	1	**170.00**	40592	80	8	**180.00**
33684	15	1.5	**170.00**	33689	100	10	**180.00**
40588	20	2	**175.00**	33690	150	15	**180.00**
40589	30	3	**175.00**	33691	200	20	**180.00**
40590	40	4	**175.00**				

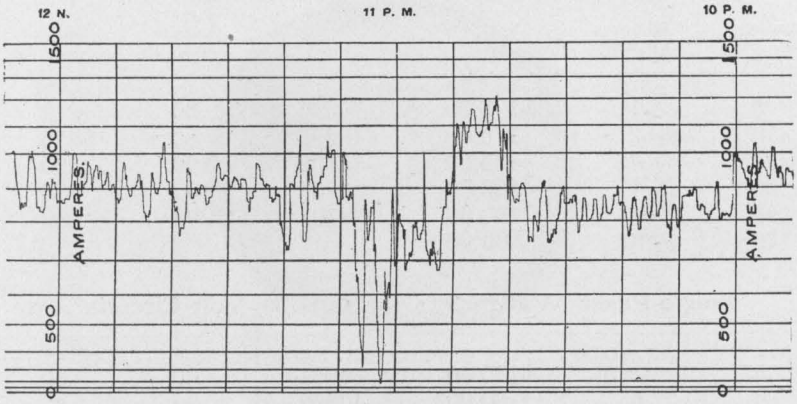
Always specify frequency of circuit on which instruments are to be used.

Approximate shipping weight, 160 lbs.

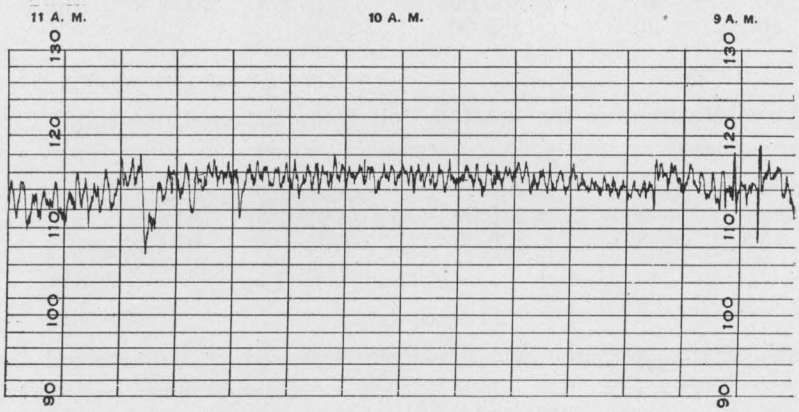
SWITCHBOARD INSTRUMENTS

Curve Drawing Instruments

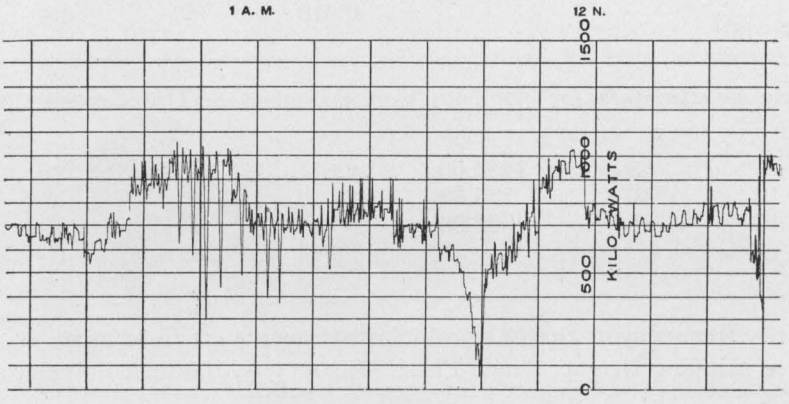
Illustrations are Approximately One-Half Size of Scales



AMMETER RECORD



VOLTMETER RECORD



WATTMETER RECORD

SWITCHBOARD INSTRUMENTS

Curve Drawing Instruments

Single-Phase Wattmeters for 200-250 Volt Circuits

Cat. No.	Ampere Capacity	Kilowatt Capacity	List Price	Cat. No.	Ampere Capacity	Kilowatt Capacity	List Price
33692	5	1	**$175.00**	40596	60	12	**$185.00**
33693	10	2	**175.00**	40597	80	16	**185.00**
33694	15	3	**175.00**	33699	100	20	**185.00**
40593	20	4	**180.00**	33700	150	30	**185.00**
40594	30	6	**180.00**	33701	200	40	**185.00**
40595	40	8	**180.00**				

Single-Phase Wattmeters for 500-600 Volt Circuits

33702	5	2.5	**$180.00**	40601	60	30	**$190.00**
33703	10	5	**180.00**	40602	80	40	**190.00**
33704	15	7.5	**180.00**	33709	100	50	**190.00**
40598	20	10	**185.00**	33710	150	75	**190.00**
40599	30	15	**185.00**	33711	200	100	**190.00**
40600	40	20	**185.00**				

Polyphase Wattmeters for 100-125 Volt Balanced or Unbalanced Circuits

33712	5	1	**$225.00**	40603	20	4	**$230.00**
33713	10	2	**225.00**	40604	30	6	**230.00**
33714	15	3	**225.00**	40605	40	8	**230.00**
				40606	60	12	**230.00**

Polyphase Wattmeters for 200-250 Volt Balanced or Unbalanced Circuits

33718	5	2	**$230.00**	40607	20	8	**$235.00**
33719	10	4	**230.00**	40608	30	12	**235.00**
33720	15	6	**230.00**	40609	40	16	**235.00**
				40610	60	24	**235.00**

Polyphase Wattmeters for 500-600 Volt Balanced or Unbalanced Circuits

33724	5	5	**$235.00**	40611	20	20	**$240.00**
33725	10	10	**235.00**	40612	30	30	**240.00**
33726	15	15	**235.00**	40613	40	40	**240.00**
				40614	60	60	**240.00**

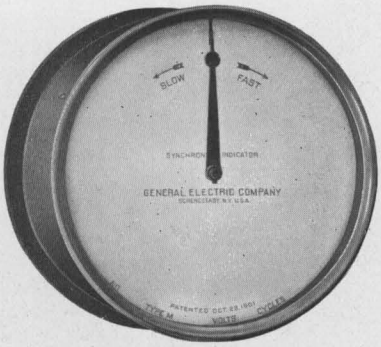
Always specify frequency of circuit on which instruments are to be used.

Approximate shipping weight: Single-Phase Wattmeters, 160 lbs.; Polyphase Wattmeters, 175 lbs.

SWITCHBOARD INSTRUMENTS

Type M Synchronism Indicators

Synchronism Indicators are furnished without receptacles, plugs or brackets, unless otherwise ordered.



SYNCHRONISM INDICATOR FOR MOUNTING ON FRONT OF PANEL

Synchronism Indicators can, when desired, be supplied with swinging brackets and lamps for mounting on side of panel, or pivoted brackets and lamps for mounting at the top of panel. Catalogue numbers will be found below including Indicator with both styles of brackets.

Synchronism Indicators 100-120 Volts

Without Bracket			*With Swinging Bracket and Lamps for Side of Panel			With Pivoted Bracket and Lamps for Top of Panel		
Cat. No.	Cycles	List Pice	Cat. No.	Cycles	List Price	Cat. No.	Cycles	List Price
28900	25	**$90.00**	46116	25	**$110.00**	30303	25	**$100.00**
28901	40	**90.00**	46117	40	**110.00**	30304	40	**100.00**
28902	60	**90.00**	46118	60	**110.00**	30305	60	**100.00**

*For mounting on pipe supports.
Approximate shipping weight without bracket, 68 lbs.

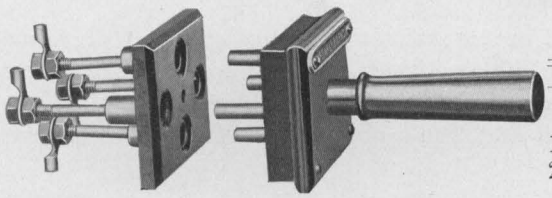
Receptacles

Two styles of Plug Receptacles are necessary in synchronizing. Cat. No. 13289 is used with grounded secondaries on Potential Transformers.

With ungrounded secondaries on Potential Transformers, two Receptacles are necessary, Cat. No. 13289 and Cat. No. 29658.

Connection Plugs

Three styles of Connection Plugs are necessary in synchronizing. Cat. No. 27368 and Cat. No. 27369 are used with the grounded secondaries on Potential Transformers.



Cat. No. 13289 Cat. No. 27368

SYNCHRONIZING RECEPTACLE AND PLUG

Synchronizing Plug Receptacles			Synchronizing Plugs		
Cat. No.	†Style	List Price	Cat. No.	†Style	List Price
13289		$2.50	27368	 Starting	$5.00
29658		2.50	27369	 Running	5.00
			29654	 Running	5.00

† Front view.

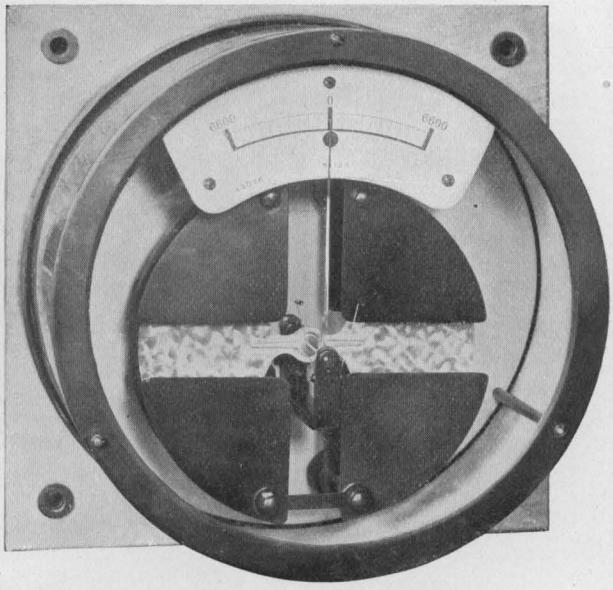
Cat. No. 27368 and Cat. No. 29654 are used with ungrounded secondaries on Potential Transformers.

ELECTROSTATIC GROUND DETECTORS

Single-Phase



TYPE E



TYPE E 2

IRON CASE, TYPE E

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
3338	1150	**$50.00**	3339	2300	**$60.00**

ROUND PATTERN, SHEET METAL CASE, GLASS FRONT, TYPE E 2

56169	1150	**$100.00**	51126	6600	**$105.00**
56170	2300	**100.00**	3341	11000	**115.00**
51125	3300	**100.00**			

Finish

Iron case, single-phase Detectors are finished in our standard dull black finish with raised portions of the cover finished in copper. Round pattern, sheet metal, single-phase Detectors have open glass front with internal and external parts finished in dull black.

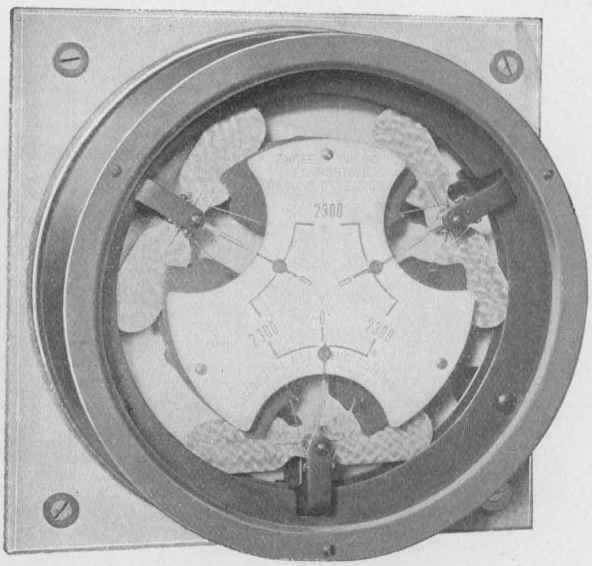
Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 62 lbs.; 4 in a box, 125 lbs.

ELECTROSTATIC GROUND DETECTORS

Three-Phase



TYPE E 3



TYPE E 4

ROUND PATTERN IRON CASE, TYPE E-3

Cat. No.	Volts	List Price	Cat. No.	Volts	List Price
28791	1150	**$100.00**	28793	3300	**$160.00**
28792	2300	**120.00**			

ROUND PATTERN SHEET METAL CASE, TYPE E 4

51134	1150	**$240.00**	51137	6600	**$270.00**
51135	2300	**250.00**	51138	11000	**290.00**
51136	3300	**260.00**			

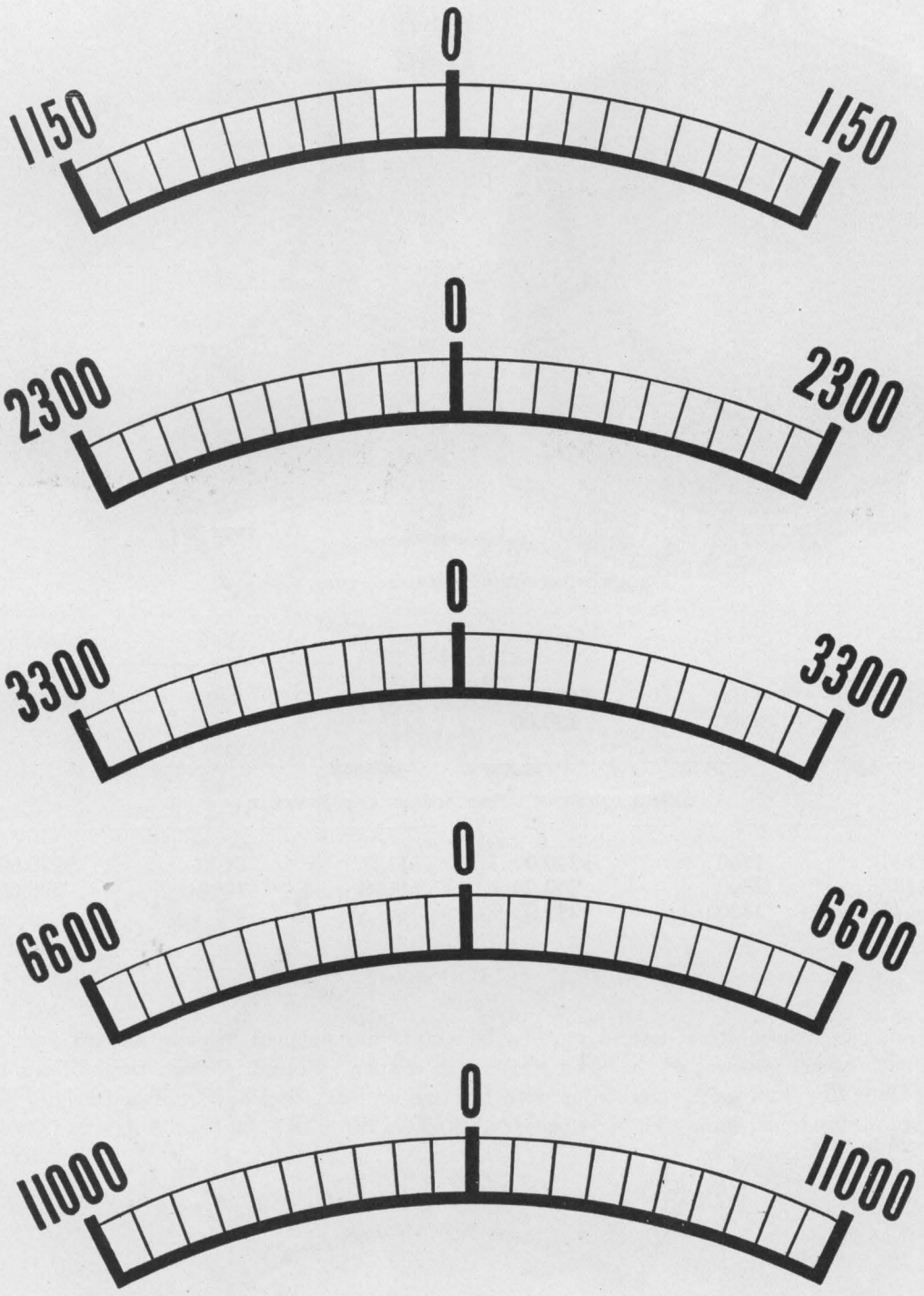
Finish

Iron case, three-phase, round pattern Detectors are finished in our standard dull black finish with raised portions of the cover finished in copper. Round, pattern three-phase, sheet metal Detectors have open glass front with internal and external parts finished in dull black.

Approximate shipping weight: 1 in a box, 30 lbs.; 2 in a box, 60 lbs.; 4 in a box, 120 lbs.

SWITCHBOARD INSTRUMENTS

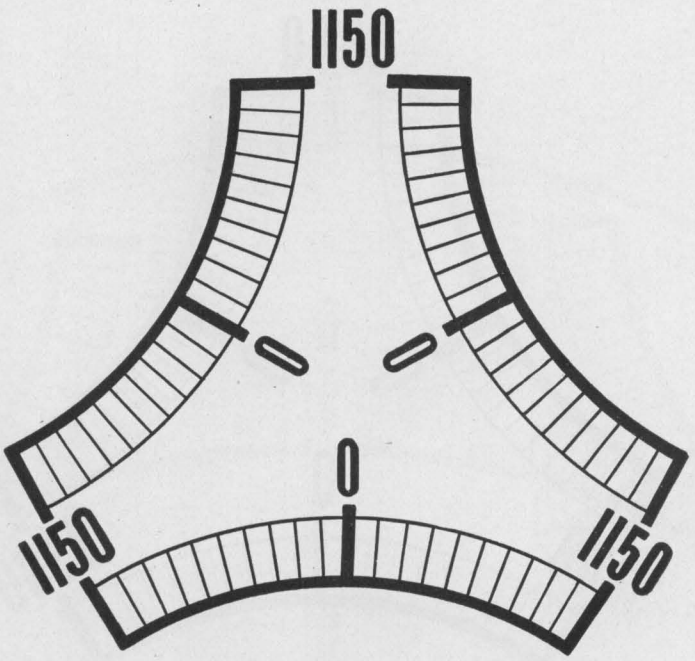
Types E and E 2



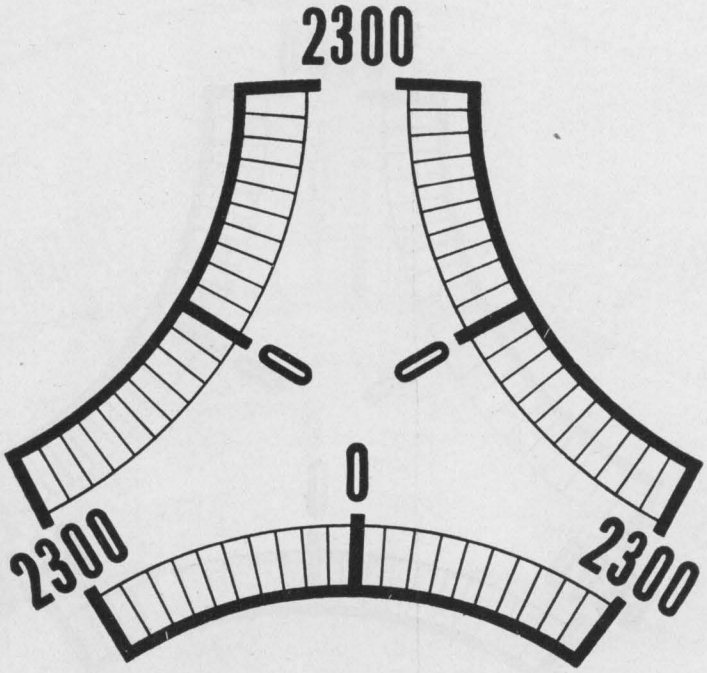
SCALES OF SINGLE-PHASE ELECTROSTATIC GROUND DETECTORS

SWITCHBOARD INSTRUMENTS

Types E 3 and E 4



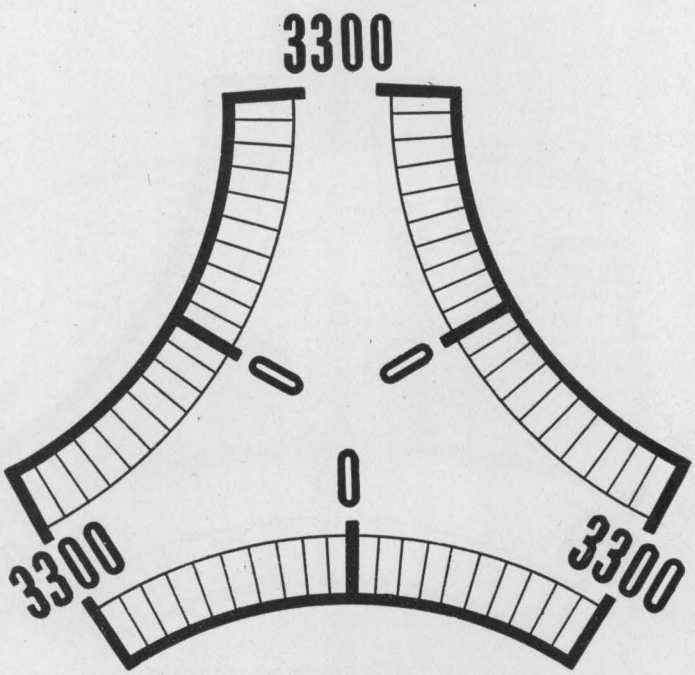
SCALE OF THREE-PHASE ELECTROSTATIC GROUND DETECTOR



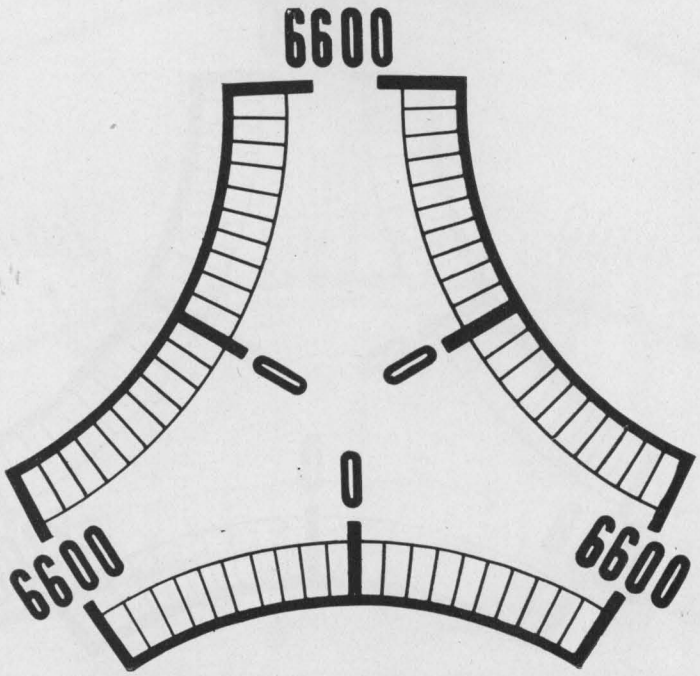
SCALE OF THREE-PHASE ELECTROSTATIC GROUND DETECTOR

SWITCHBOARD INSTRUMENTS

Types E 3 and E 4



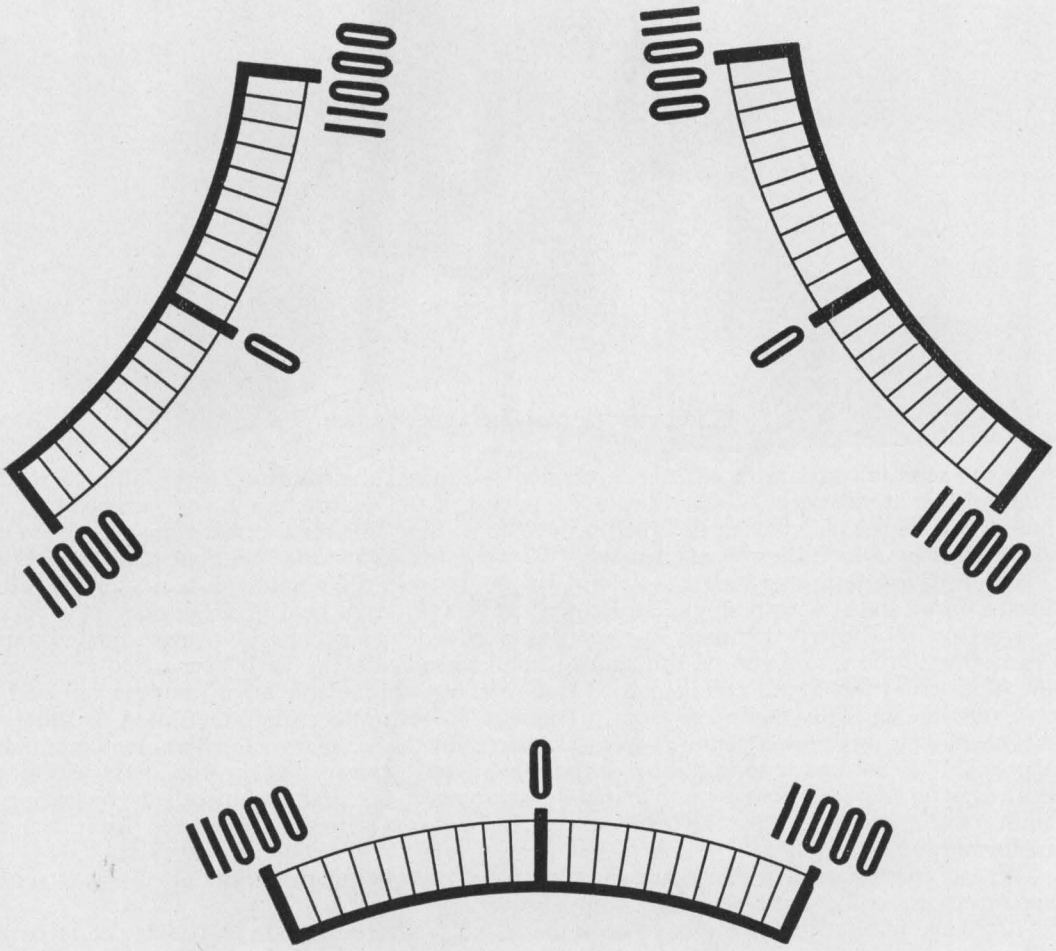
SCALE OF THREE-PHASE ELECTROSTATIC
GROUND DETECTORS



SCALE OF THREE-PHASE ELECTROSTATIC
GROUND DETECTORS

SWITCHBOARD INSTRUMENTS

Type E 4



SCALE OF THREE-PHASE ELECTROSTATIC
GROUND DETECTOR

LINE DROP COMPENSATOR FOR ALTERNATING CURRENT CIRCUITS

Type V



VOLTMETER COMPENSATING DEVICE

It is extremely desirable, in any system of electrical distribution, to be able to read the actual voltage at the point of distribution by means of the voltmeters in the generating station. A number of devices have been designed for accomplishing this result, but while they were accurate on loads for which they were adjusted, they were not as accurate on light loads or overloads or loads of different power factors. It will be readily seen that unless a device of this kind is accurate on all loads with a single adjustment, it has no large field of usefulness.

The General Electric Company has now perfected a device which when once adjusted requires no further attention, and can be fully relied upon to indicate the variations of potential at the point of distribution at all conditions of load without appreciable error between no load and heavy overloads. This device is used in connection with the standard station voltmeter.

The device includes a small current transformer the primary of which is wound for 5 amperes. It is necessary to install a standard current transformer in the main circuits for operating the device, unless a current transformer is already installed operating an ammeter only, in which case the compensator and ammeter may be operated from the same transformer.

Where current transformers are already operating other instruments or relays, a separate transformer must be used with the compensator.

After the final adjustments have been made, no further attention to the device is required until some change is made in the construction of the circuit.

Following will be found a list of the standard capacities together with catalogue numbers and list prices:

Cat. No.	Amperes	Frequency	*List Price	Cat. No.	Amperes	Frequency	*List Price
41243	5	25	**$90.00**	41245	5	60	**$90.00**
41244	5	40	**90.00**	41246	5	125	**90.00**

Approximate shipping weight, 65 lbs.

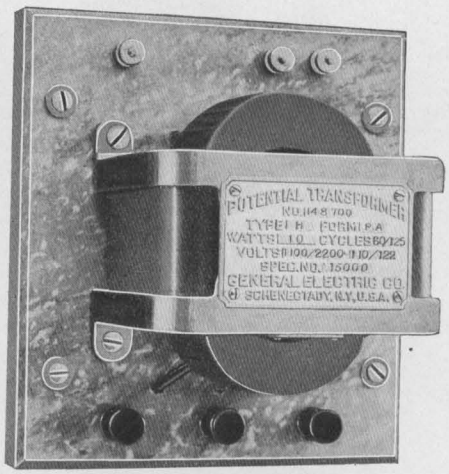
*Price does not include external Current Transformer. When external Current Transformers are desired, the *continuous* ampere capacity of the circuit *must* be given.

SWITCHBOARD TRANSFORMERS

Potential Transformers



Cat. No. 27613



Cat. No. 3699

Potential Transformers are designed to furnish current for either voltmeters or wattmeters. The first standard transformer in the list has a 10-watt rating, giving sufficient capacity to operate the potential coil of a single instrument. Fifty-watt transformers must be used if the wattmeter is of the induction type.

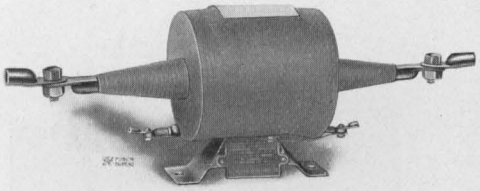
Potential Transformers of 50-watt capacity will operate any combination of instruments the capacity of which does not exceed 50 volt-amperes. In the following list of transformers suitable for all standard voltages, each transformer is given a voltage rating midway between the no-load and the full-load standard voltage of the generator. Thus, the smallest transformer, rated at 1100 volts, is intended for a circuit of 1040 volts, nominal rating, with a maximum of 10% above this or 1150 volts. Transformers for circuits of over 3500 volts are oil-insulated and contained in cast-iron boxes. All these oil-insulated transformers are fitted with fuses in the primary side.

Cat. No.	Watts	Volts		Cycles	List Price
		Primary	Secondary		
3699	10	1100–2200	110/122	60–125	**$35.00**
33573	50	330–363–440	110	25– 60	**40.00**
33574	50	550	110	25– 60	**40.00**
34155	50	1100–2200	110/122	25– 60	**60.00**
34156	50	1100–2200	110/122	60–125	**45.00**
*34157	50	1100–2200	110/122	60–125	**35.00**
31793	200	220	110	25– 60	**60.00**
33578	200	330–363–440	110	25– 60	**65.00**
27607	200	550	110	25– 60	**65.00**
34158	200	1100–2200	110/122	25– 60	**65.00**
27611	200	3300	110	25– 60	**70.00**
27612	200	5500	110	25– 60	**130.00**
27613	200	6600	110	25– 60	**140.00**
27614	200	11000	110	25– 60	**150.00**
27615	200	13200	110	25– 60	**150.00**
33580	200	22000	110	25– 60	**300.00**
27876	200	26400	110	25– 60	**300.00**

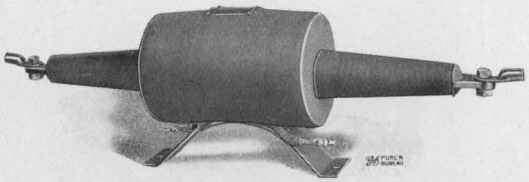
Approximate shipping weight: 1 in a box, 40 lbs.; 2 in a box, 90 lbs.; 4 in a box, 150 lbs.
*Without marble base.

SWITCHBOARD TRANSFORMERS

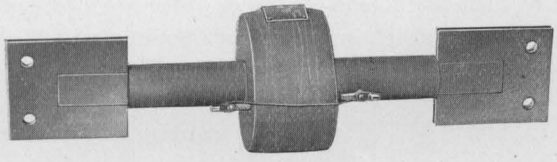
Current Transformers



CURRENT TRANSFORMER, FORM D 20



CURRENT TRANSFORMER, FORM D 21



CURRENT TRANSFORMER, FORM E 15



CURRENT TRANSFORMER, FORM F 4

The Forms D 20 and D 21 Transformers are air-insulated. The D 20 Transformers are used on circuits up to and including 7500 volts; D 21 from 7500 to 15000 volts; Form E 15 which is of the bus-bar type is for use on circuits not greater than 6600 volts. The Form F 4 is oil-insulated, and is for use on circuits not exceeding 27000 volts. The F 10 Current Transformer is also oil-insulated, and is for use on circuits of from 27000 volts to 35000 volts.

Current Transformers used with instruments have secondary capacity of 5 amperes. In all cases where Current Transformers are used, the instruments are marked in primary rating. All Current Transformers of standard types may be used interchangeably in connection with from one to three instruments in series, provided the load does not exceed 40 volt amperes. The leads must not exceed twenty-five feet in length.

SWITCHBOARD TRANSFORMERS

Current Transformers

CIRCUITS UNDER 7500 VOLTS
(5 Amp. Secondary)
Form D 20

Cat. No.	Continuous Ampere Capacity	Ratio	Approx. Shipping Weight, Lbs.
41251	5	1:1	35
41252	10	2:1	35
41253	15	3:1	35
41254	20	4:1	35
41255	30	6:1	35
41256	40	8:1	35
41257	60	12:1	35
41258	80	16:1	35
41259	100	20:1	35
41260	150	30:1	40
41261	200	40:1	40
41262	300	60:1	40
41263	400	80:1	40
41264	600	120:1	40

CIRCUITS FROM 7500 TO 15000 VOLTS
(5 Amp. Secondary)
Form D 21

Cat. No.	Continuous Ampere Capacity	Ratio	Approx. Shipping Weight, Lbs.
41265	5	1:1	70
41266	10	2:1	70
41267	15	3:1	70
41268	20	4:1	70
41269	30	6:1	70
41270	40	8:1	70
41271	60	12:1	70
41272	80	16:1	70
41273	100	20:1	70
41274	150	30:1	70
41275	200	40:1	70
41276	300	60:1	70
41277	400	80:1	70
41278	600	120:1	70

CIRCUITS FROM 15000 TO 27000 VOLTS
(5 Ampere Secondary)
Form F 4

41279	5	1:1	250
41280	10	2:1	250
41281	15	3:1	250
41282	20	4:1	250
41283	30	6:1	250
41284	40	8:1	250
41285	60	12:1	250
41286	80	16:1	250
41287	100	20:1	250
41288	150	30:1	250

CIRCUITS FROM 27000 TO 35000 VOLTS
(For C.C. Service)
Form F 10

41289	5	1:1	450
41290	10	2:1	450
41291	15	3:1	450
41292	20	4:1	450
41293	30	6:1	450
41294	40	8:1	450
41295	60	12:1	450
41296	80	16:1	450
41297	100	20:1	450
41298	150	30:1	450

CIRCUITS UNDER 7500 VOLTS
Form E 15

41299	800	160:1	30
41300	1000	200:1	30
41301	1500	300:1	30
41302	2000	400:1	30
41303	3000	600:1	30
41304	4000	800:1	30
41305	6000	1200:1	30

CIRCUITS UNDER 7500 VOLTS*
(For C.C. Service)
Form D 24

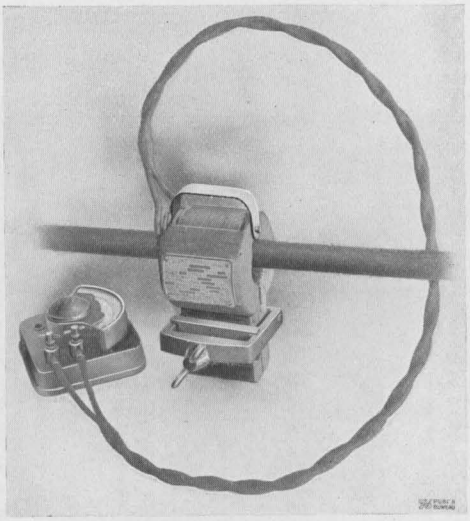
41249	3.5	1:1	25
41250	7.5	1:1	25

CIRCUITS FROM 7500 TO 13500 VOLTS*
(For C.C. Service)
Form D 7

28917	3.5	1:1	35
28918	7.5	1:1	35

*Normal load—One ammeter.

CABLE TESTING CURRENT TRANSFORMER



CABLE TESTING CURRENT TRANSFORMER SET

The Cable Testing Current Transformer Set manufactured by the General Electric Company has been developed after a long and thorough investigation of the conditions to be met by such a device. As will be seen from the illustration, the testing set consists of a special Transformer having a hinged magnetic circuit and a Thomson inclined coil portable ammeter.

Transformer

The Transformer has been designed with a view to producing an outfit which is convenient and accurate, and is constructed in the most compact form.

Leads

In order that the serviceableness of the testing outfit may be increased, flexible duplex leads 40 feet in length are supplied with each set. The Transformer can thus be clamped in position around the conductor and the ammeter removed to a more convenient place for reading.

Ammeter

The ammeter supplied with this testing set is of the standard Thomson inclined coil portable form. This instrument is accurate and permanent, and is constructed so as to withstand the hard usage to which portable instruments are subjected. The instrument is calibrated with its specific transformer and the scale reads in primary values.

Connections and Operation

In conducting a test, the terminals of the duplex leads should be inserted in the ammeter binding posts and the transformer jaws firmly clamped in position around the cable.

Uses of the Testing Set

Occasions for using this set will constantly arise in both laboratory and commercial service. In determining the load on feeders and distribution networks, the Cable Testing Current Transformer Set will be found particularly valuable.

Weight

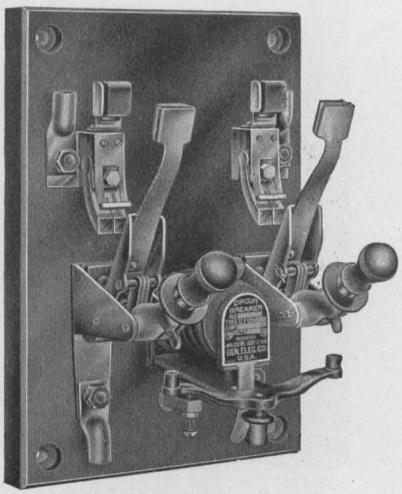
Approximate combined shipping weight of the transformer and ammeter is 45 pounds.

	Cat. No.	Ampere Capacity	List Price	
	33499	125	**$75.00**	
	33500	250	**75.00**	

Cat. No. and list price include the necessary ammeter.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

Direct Current Overload



DOUBLE POLE CIRCUIT BREAKER

Cat. No.		Amp. Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Front Connected on Base	Back Connected for 1½" or 2" Panel		Min.	Max.	Front Connected	Back Connected	
			SINGLE POLE, 250 VOLTS				
39897	39909	3	1.5	5	20	12	**$12.00**
39901	39913	5	3	8	20	12	**12.00**
39905	39917	10	5	15	20	12	**12.00**
35481	35505	15	10	25	20	12	**12.00**
35485	35509	25	15	40	20	12	**13.00**
35489	35513	50	25	75	20	12	**14.00**
35493	35517	100	50	150	20	12	**17.00**
35497	35521	200	100	300	32	20	**25.00**
35501	35525	300	200	450	32	20	**30.00**
			DOUBLE POLE, 250 VOLTS				
39898	39910	3	1.5	5	25	15	**$17.00**
39902	39914	5	3	8	25	15	**17.00**
39906	39918	10	5	15	25	15	**17.00**
35482	35506	15	10	25	25	15	**17.00**
35486	35510	25	15	40	25	15	**18.00**
35490	35514	50	25	75	25	15	**19.00**
35494	35518	100	50	150	25	15	**22.00**
35498	35522	200	100	300	48	32	**40.00**
35502	35526	300	200	450	48	32	**45.00**
			SINGLE POLE, 500 VOLTS				
39899	39911	3	1.5	5	20	12	**$16.00**
39903	39915	5	3	8	20	12	**16.00**
39907	39919	10	5	15	20	12	**16.00**
35483	35507	15	10	25	20	12	**16.00**
35487	35511	25	15	40	20	12	**17.00**
35491	35515	50	25	75	20	12	**18.00**
35495	35519	100	50	150	20	12	**21.00**
35499	35523	200	100	300	32	22	**30.00**
35503	35527	300	200	450	32	22	**35.00**
			DOUBLE POLE, 500 VOLTS				
39900	39912	3	1.5	5	27	15	**$21.00**
39904	39916	5	3	8	27	15	**21.00**
39908	39920	10	5	15	27	15	**21.00**
35484	35508	15	10	25	27	15	**21.00**
35488	35512	25	15	40	27	15	**22.00**
35492	35516	50	25	75	27	15	**23.00**
35496	35520	100	50	150	27	15	**25.00**
35500	35524	200	100	300	48	35	**45.00**
35504	35528	300	200	450	48	35	**50.00**

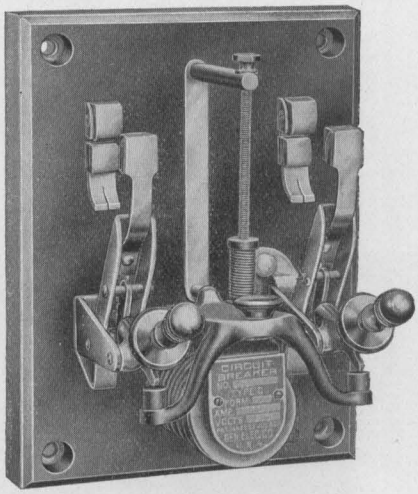
NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

See table of nuts and terminals on page 124.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

Direct Current Underload



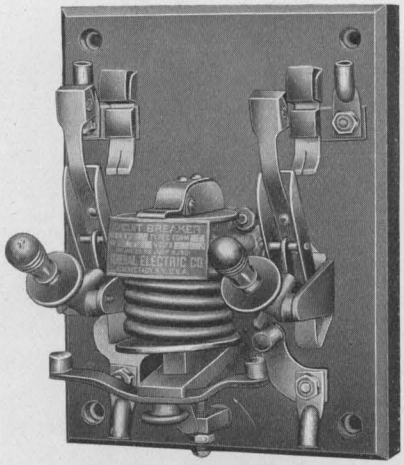
DOUBLE POLE CIRCUIT BREAKER

Cat. No.		Ampere Capacity	Approximate Shipping Weight, Lbs.		List Price
Front Connected on Base	Back Connected for 1½″ or 2″ Panel		Front Connected	Back Connected	
SINGLE POLE, 250 VOLTS					
37491	37515	15	20	12	$14.00
37495	37519	25	20	12	15.00
37499	37523	50	20	12	16.00
37503	37527	100	20	12	19.00
37507	37531	200	32	20	28.00
37511	37535	300	32	20	33.00
DOUBLE POLE, 250 VOLTS					
37492	37516	15	25	15	$19.00
37496	37520	25	25	15	20.00
37500	37524	50	25	15	21.00
37504	37528	100	25	15	24.00
37508	37532	200	48	32	44.00
37512	37536	300	48	32	49.00
SINGLE POLE, 500 VOLTS					
37493	37517	15	20	12	$18.00
37497	37521	25	20	12	19.00
37501	37525	50	20	12	20.00
37505	37529	100	20	12	23.00
37509	37533	200	32	22	33.00
37513	37537	300	32	22	38.00
DOUBLE POLE, 500 VOLTS					
37494	37518	15	27	15	$23.00
37498	37522	25	27	15	24.00
37502	37526	50	27	15	25.00
37506	37530	100	27	15	27.00
37510	37534	200	48	35	49.00
37514	37538	300	48	35	54.00

NOTE.—Ampere Capacity denotes the load in amperes the breakers will carry continuously without excessive heating. Underload circuit breakers can be set to trip between the minimum limit of 10% and the maximum limit of 20% of their normal ampere carrying capacity.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

Alternating Current Overload



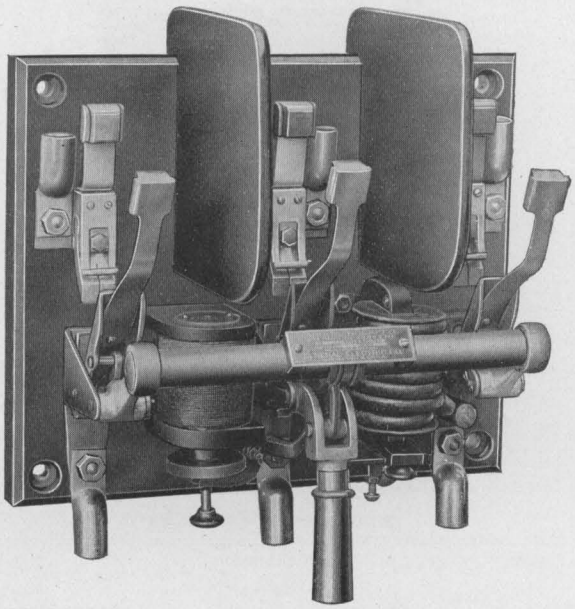
DOUBLE POLE CIRCUIT BREAKER

Cat. No.		Amp. Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Front Connected on Base	Back Connected for 1½″ or 2″ Panel.		Min.	Max.	Front Connected	Back Connected	
SINGLE POLE, 250 VOLTS							
43338	43350	3	1.5	5	20	12	**$17.00**
43342	43354	5	3	8	20	12	**17.00**
43346	43358	10	5	15	20	12	**17.00**
38142	38166	15	10	25	20	12	**17.00**
38146	38170	25	15	40	20	12	**18.00**
38150	38174	50	25	75	20	12	**19.00**
38154	38178	100	50	150	20	12	**22.00**
38158	38182	200	100	300	32	20	**30.00**
38162	38186	300	200	450	32	20	**35.00**
DOUBLE POLE, 250 VOLTS							
43339	43351	3	1.5	5	25	15	**$22.00**
43343	43355	5	3	8	25	15	**22.00**
43347	43359	10	5	15	25	15	**22.00**
38143	38167	15	10	25	25	15	**22.00**
38147	38171	25	15	40	25	15	**23.00**
38151	38175	50	25	75	25	15	**24.00**
38155	38179	100	50	150	25	15	**27.00**
38159	38183	200	100	300	48	32	**45.00**
38163	38187	300	200	450	48	32	**50.00**
SINGLE POLE, 550 VOLTS							
43340	43352	3	1.5	5	20	12	**$21.00**
43344	43356	5	3	8	20	12	**21.00**
43348	43360	10	5	15	20	12	**21.00**
38144	38168	15	10	25	20	12	**21.00**
38148	38172	25	15	40	20	12	**22.00**
38152	38176	50	25	75	20	12	**23.00**
38156	38180	100	50	150	20	12	**26.00**
38160	38184	200	100	300	32	22	**35.00**
38164	38188	300	200	450	32	22	**40.00**
DOUBLE POLE, 550 VOLTS							
43341	43353	3	1.5	5	27	15	**$26.00**
43345	43357	5	3	8	27	15	**26.00**
43349	43361	10	5	15	27	15	**26.00**
38145	38169	15	10	25	27	15	**26.00**
38149	38173	25	15	40	27	15	**27.00**
38153	38177	50	25	75	27	15	**28.00**
38157	38181	100	50	150	27	15	**31.00**
38161	38185	200	100	300	48	35	**50.00**
38165	38189	300	200	450	48	35	**55.00**

NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

Alternating Current, Overload and Low Voltage



TRIPLE POLE CIRCUIT BREAKER

TRIPLE POLE, 550 VOLTS, ONE OVERLOAD COIL

Cat. No.		Amp. Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Front Connected on Base	Back Connected for 1½ or 2″ Panel		Min.	Max.	Front Connected	Back Connected	
46271	46280	3	1.5	5	40	30	**$40.00**
46272	46281	5	3	8	40	30	**40.00**
46273	46282	10	5	15	40	30	**40.00**
38196	40322	15	10	25	40	30	**40.00**
38197	40323	25	15	40	40	30	**40.00**
38198	40324	50	25	75	40	30	**40.00**
38199	40325	100	50	150	40	30	**45.00**
38200	40326	200	100	300	65	50	**75.00**
38201	40327	300	200	450	65	50	**85.00**

TRIPLE POLE, 550 VOLTS, TWO OVERLOAD COILS

46268	46277	3	1.5	5	44	40	**$50.00**
46269	46278	5	3	8	44	40	**50.00**
46270	46279	10	5	15	44	40	**50.00**
38190	38214	15	10	25	44	40	**50.00**
38191	38215	25	15	40	44	40	**50.00**
38192	38216	50	25	75	44	40	**50.00**
38193	38217	100	50	150	44	40	**55.00**
38194	38218	200	100	300	70	55	**85.00**
38195	38219	300	200	450	70	55	**95.00**

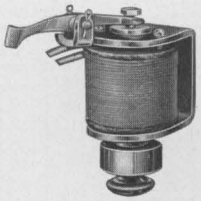
TRIPLE POLE, 550 VOLTS, OVERLOAD AND LOW VOLTAGE

Cat. No.		Amp. Capacity	Calibration		Cycles	Cycles	List Price
Front Connected on Base	Back Connected for 1½″ or 2″ Panel		Min.	Max.	25, 40 and 60	25, 40 and 60	
Cycles	Cycles						
25, 40 and 60	25, 40 and 60						
46274	46283	3	1.5	5	47	44	**$60.00**
46275	46284	5	3	8	47	44	**60.00**
46276	46285	10	5	15	47	44	**60.00**
38202	38220	15	10	25	47	44	**60.00**
38203	38221	25	15	40	47	44	**60.00**
38204	38222	50	25	75	47	44	**60.00**
38205	38223	100	50	150	47	44	**65.00**
38206	38224	200	100	300	70	55	**95.00**
38207	38225	300	200	450	70	55	**105.00**

NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating. Use one (1) overload coil on balanced circuits; two (2) overload coils on unbalanced circuits.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

Attachments



LOW VOLTAGE ATTACHMENT



SHUNT TRIP ATTACHMENT

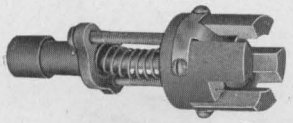
*LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. of Attachment		List Price		Voltage of Circuit	Approx. Releasing Voltage	For Circuit Breaker	
Direct Current	Alternating Current	Direct Current	Alternating Current			Ampere Capacity	Poles
37539	43378	$10.00	$14.00	125	60	3 to 100	Single and double
37542	43381	12.00	16.00	125	60	200 & 300	Single and double
37540	43379	10.00	14.00	250	125	3 to 100	Single and double
37543	43382	12.00	16.00	250	125	200 & 300	Single and double
37541	43380	10.00	14.00	500	250	3 to 100	Single and double
37544	43383	12.00	16.00	500	250	200 & 300	Single and double

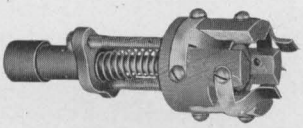
†SHUNT TRIP ATTACHMENTS

Cat. No. of Attachment Direct and Alt. Current	List Price	Voltage of Circuit	For Circuit Breaker	
			Ampere Capacity	Poles
37545	$ 8.00	125-250-500	3 to 100	Single and double
37546	10.00	125-250-500	200 & 300	Single and double

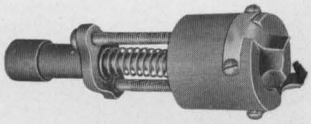
Auxiliary Switches for Direct and Alternating Current



CIRCUIT CLOSING



COMBINED CIRCUIT OPENING AND CIRCUIT CLOSING



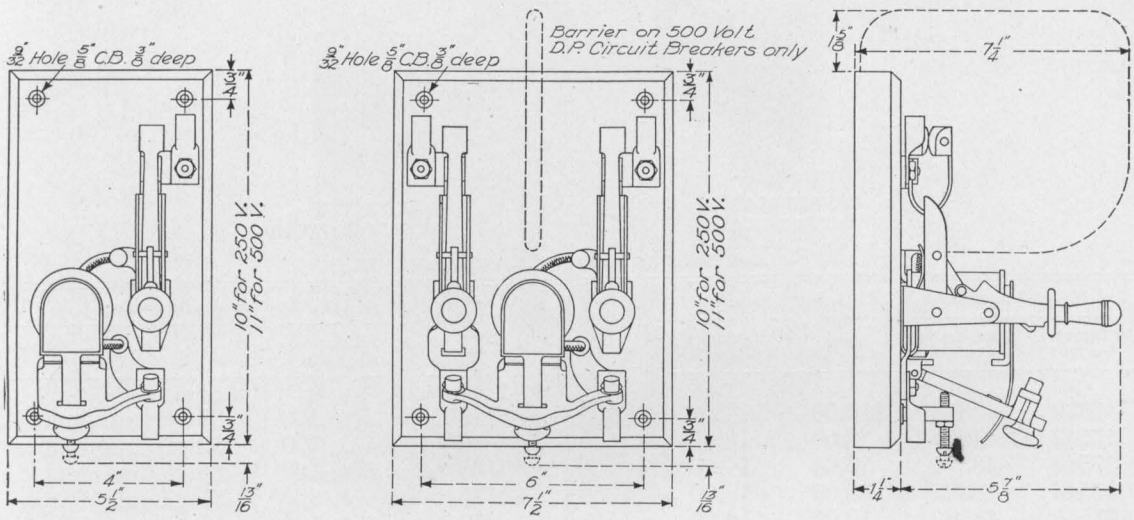
CIRCUIT OPENING

Circuit Closing		Circuit Opening		Combined Circuit Opening and Circuit Closing		Ampere Capacity of Circuit Breaker	For Mounting On
Cat. No.	List Price	Cat No.	List Price	Cat. No.	List Price		
37553	$5.00	37547	$5.00	37559	$8.00	3 to 100	1¼″ base
37554	5.00	37548	5.00	37560	8.00	3 to 100	1½″ panel
37555	5.00	37549	5.00	37561	8.00	3 to 100	2 ″ panel
37556	5.00	37550	5.00	37562	8.00	200 & 300	1¼″ base
37557	5.00	37551	5.00	37563	8.00	200 & 300	1½″ panel
37558	5.00	37552	5.00	37564	8.00	200 & 300	2 ″ panel

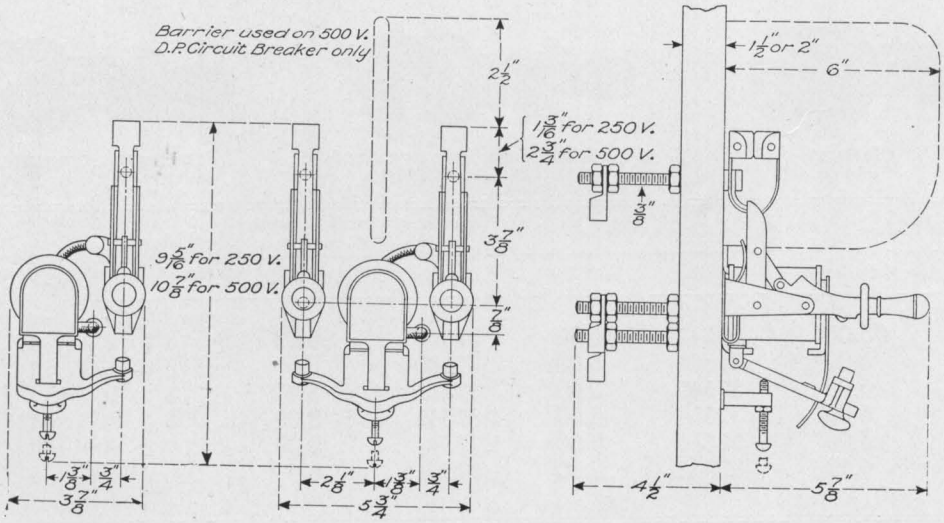
*Release at one-half rated voltage.
†Should be allowed to remain in circuit only momentarily.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

100 Amps., 250 and 500 Volts, Direct Current Overload—Dimensions



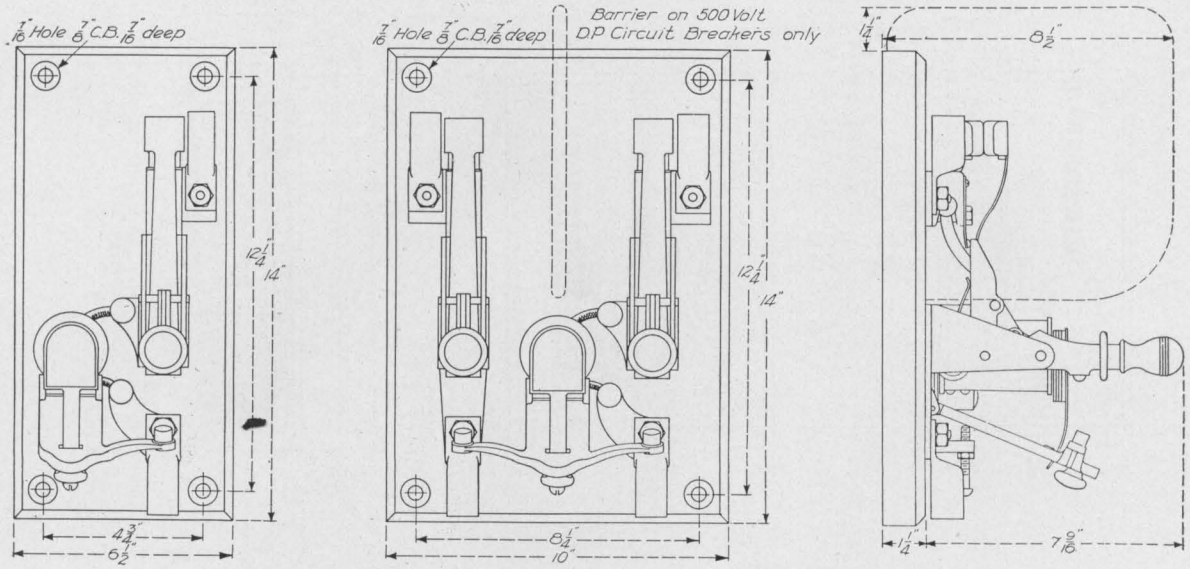
FRONT CONNECTED



BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

200 and 300 Amps., 250 and 500 Volts, Direct Current Overload—Dimensions



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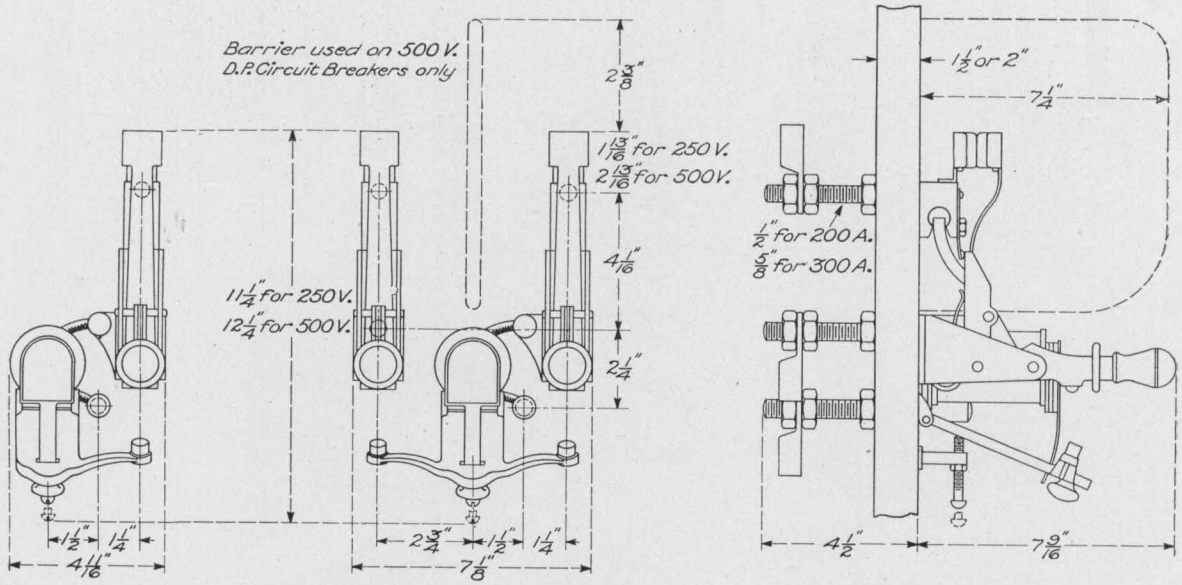
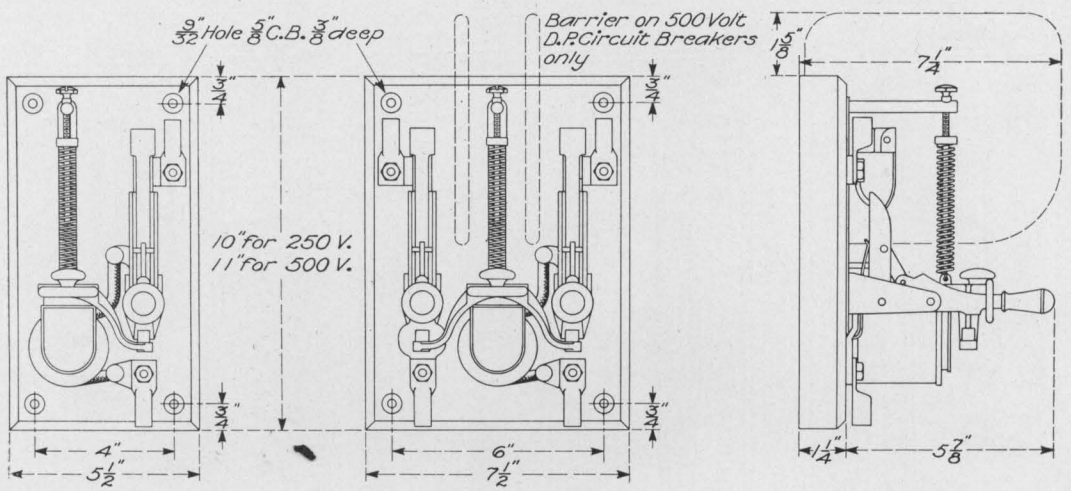


BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

100 Amps., 250 and 500 Volts, Direct Current Underload—Dimensions



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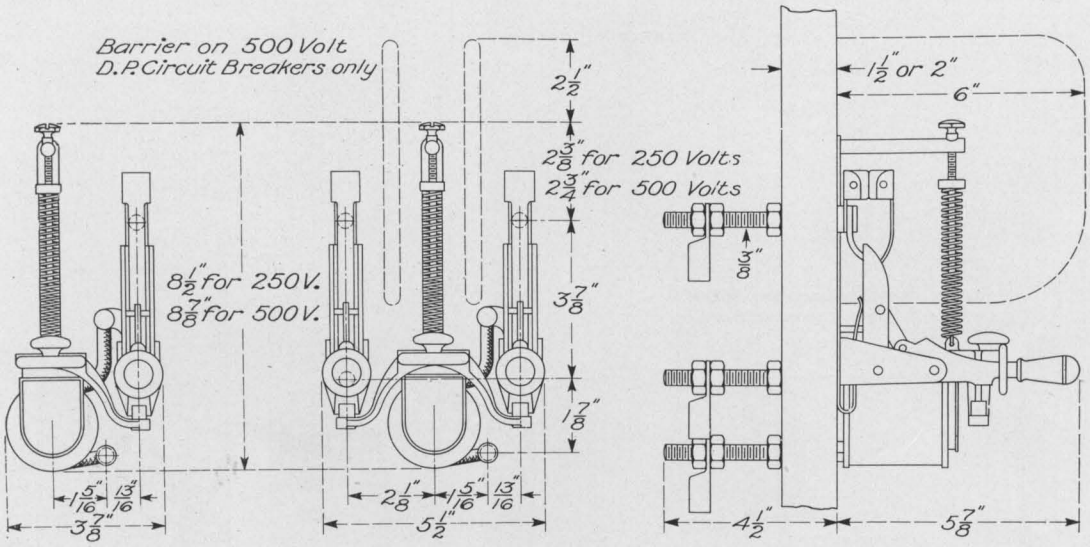
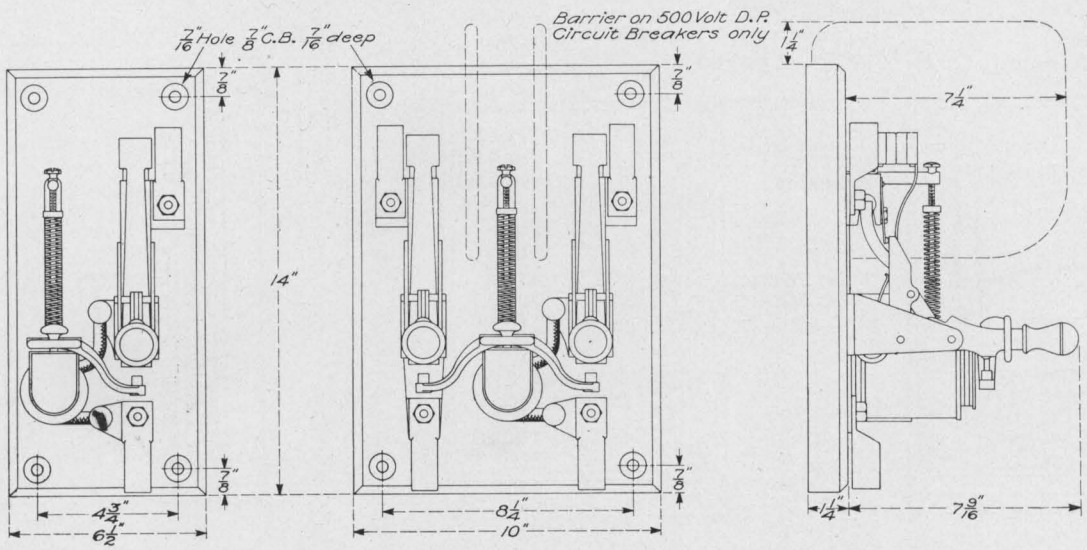


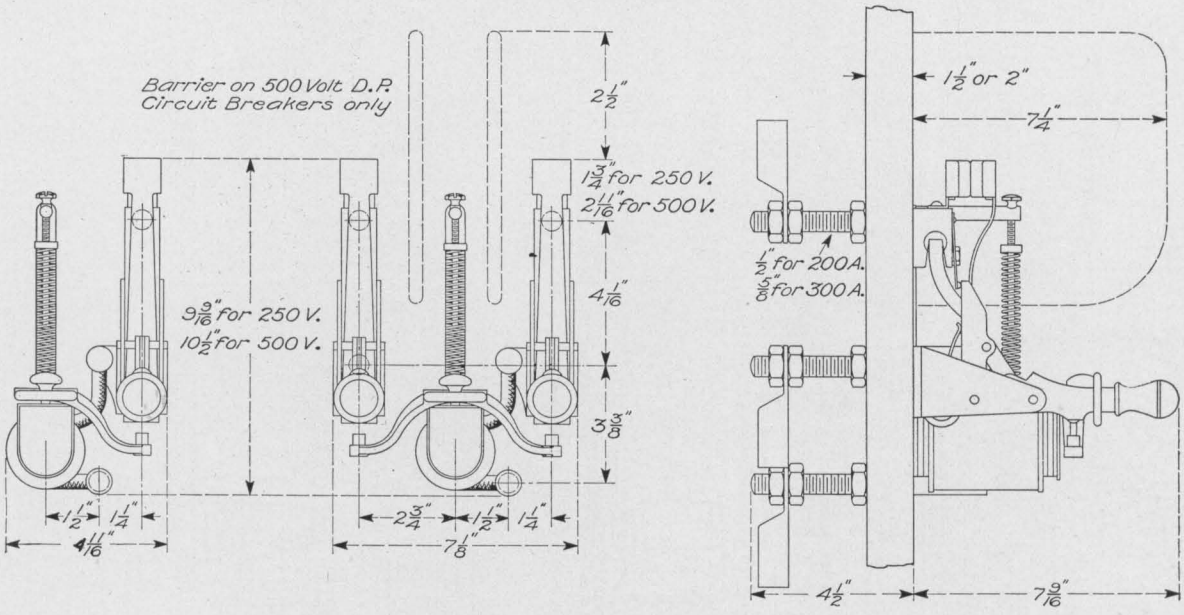
BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

200 and 300 Amps., 250 and 500 Volts, Direct Current Underload—Dimensions



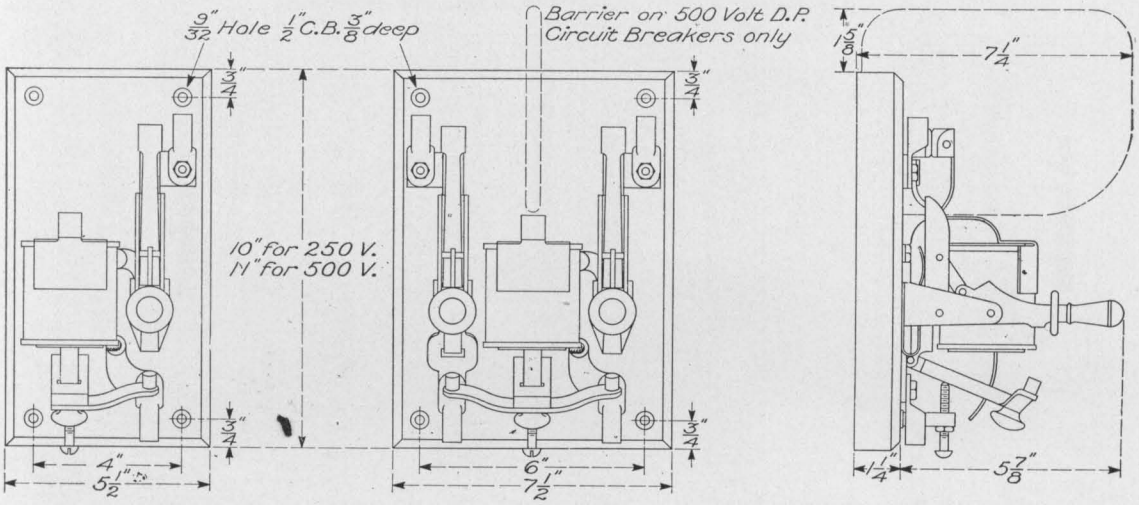
FRONT CONNECTED



BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

100 Amps., 250 and 500 Volts, Alternating Current Overload—Dimensions



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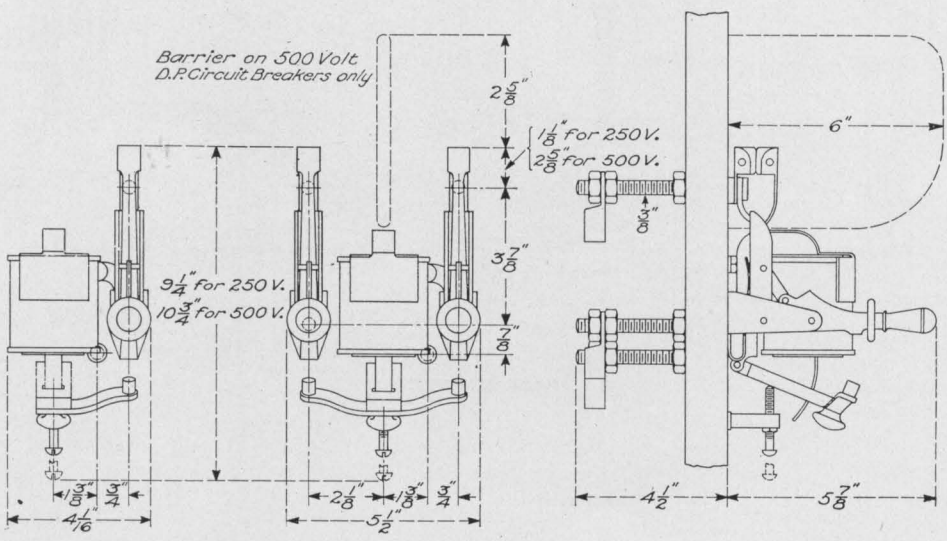
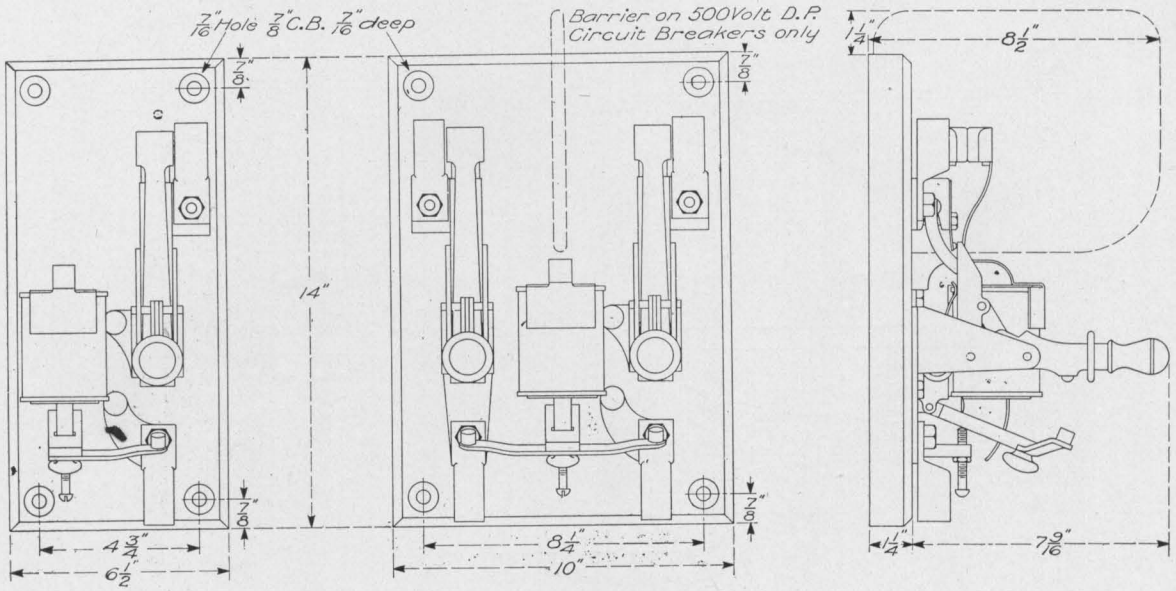


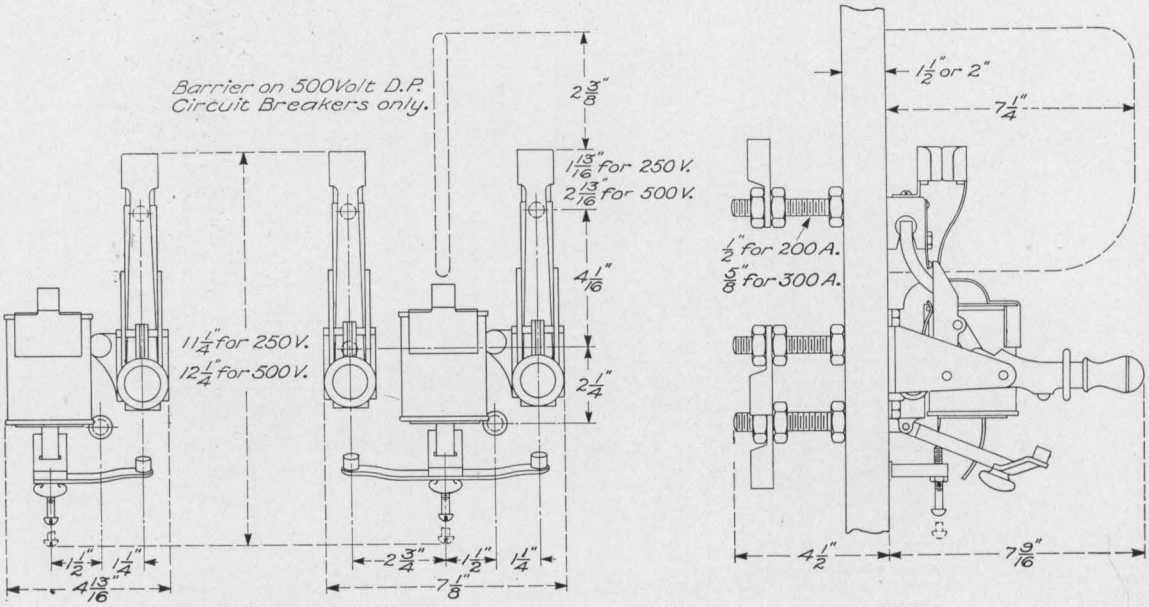
BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

200 and 300 Amps., 250 and 500 Volts, Alternating Current Overload—Dimensions



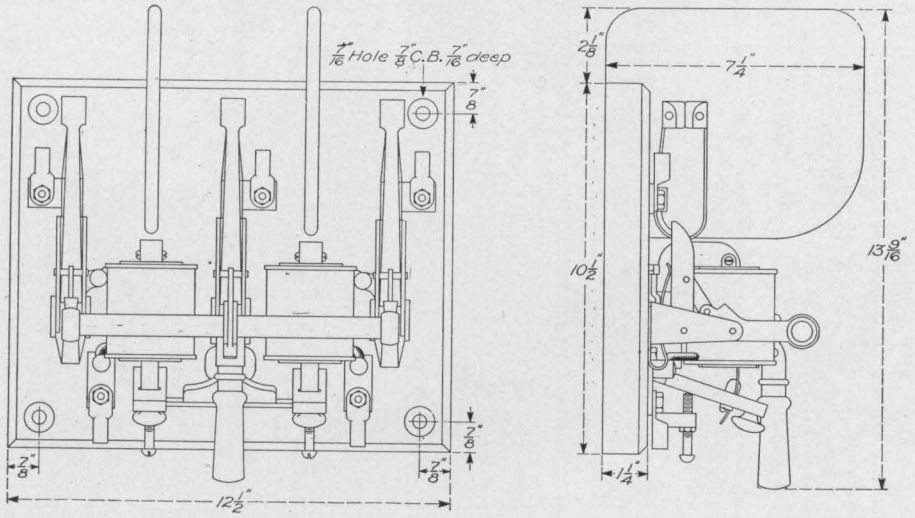
FRONT CONNECTED



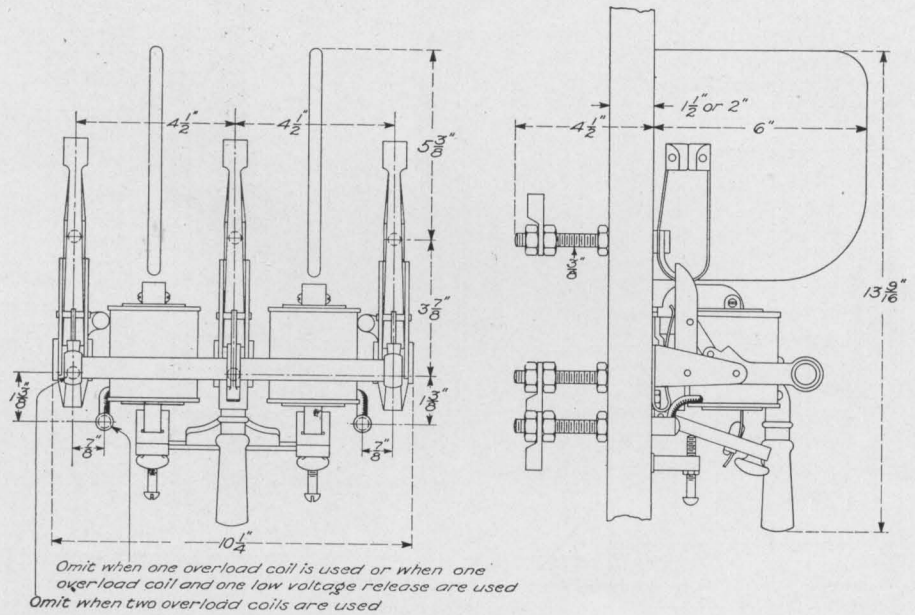
BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G.

100 Amps., 500 Volts, Alternating Current Overload—Dimensions



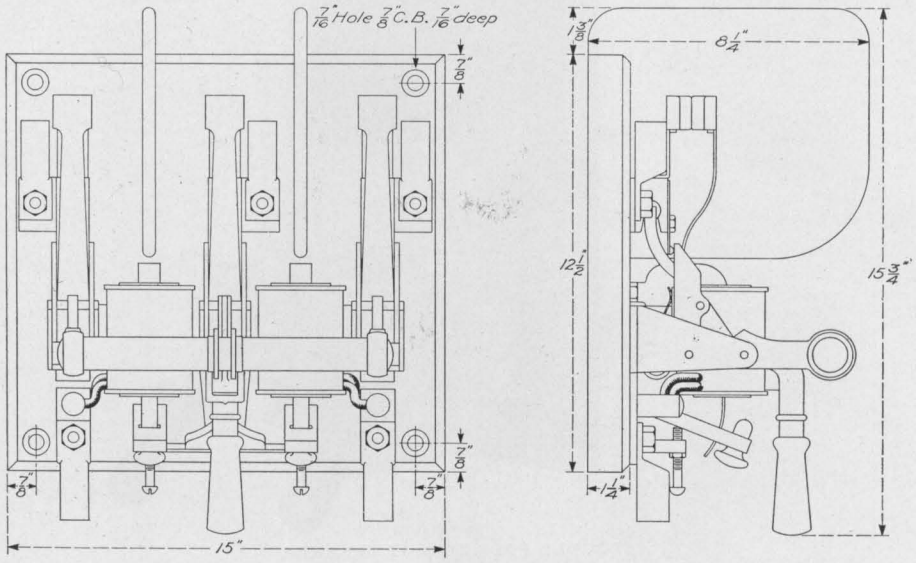
FRONT CONNECTED



BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM G

200 and 300 Amps., 500 Volts, Alternating Current Overload—Dimensions



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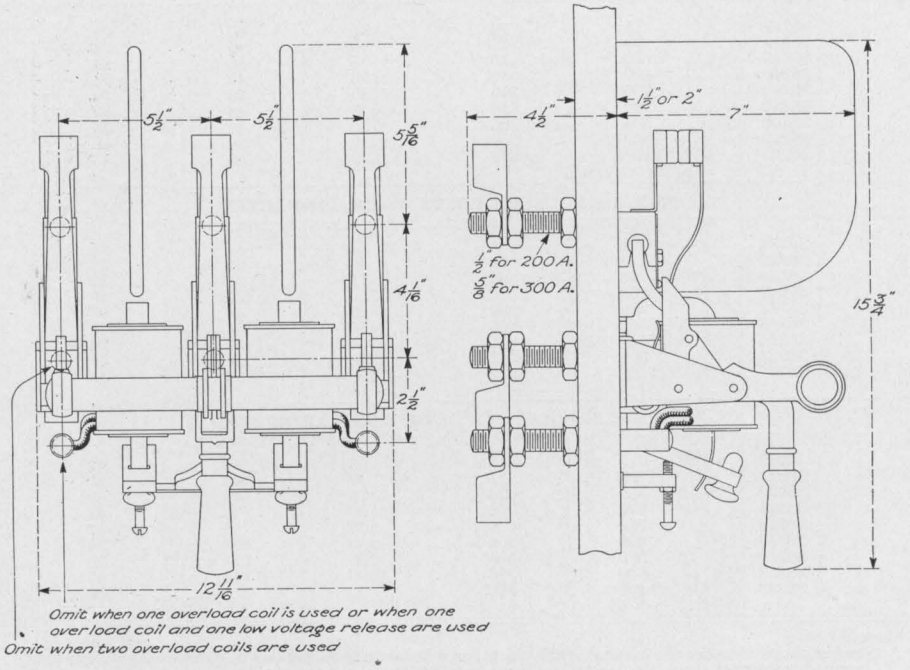
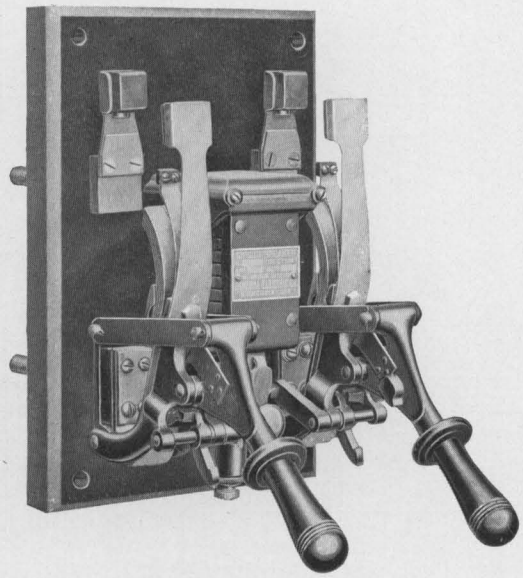


BACK CONNECTED

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

Direct Current Overload



DOUBLE POLE CIRCUIT BREAKER

SINGLE POLE, 250 VOLTS, BACK CONNECTED

Cat. No.		Amp. Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Mounted on 1¼″ Slate Base	For 1½″ or 2″ Panel		Min.	Max.	On Base	For Panel	
36204	36231	15	10	25	40	24	**$35.00**
36207	36234	25	15	40	40	24	**35.00**
36210	36237	50	25	75	40	24	**37.00**
36213	36240	100	50	150	40	24	**42.00**
36216	36243	200	100	300	40	24	**50.00**
36219	36246	300	200	450	48	32	**60.00**
36222	36249	500	300	750	48	32	**75.00**
*36225	36252	800	500	1200	50	43	**115.00**
*36228	36255	1200	800	1800	50	43	**150.00**

SINGLE POLE, 650 VOLTS, BACK CONNECTED

36206	36233	15	10	25	51	26	**$38.00**
36209	36236	25	15	40	25	26	**38.00**
36212	36239	50	25	75	25	31	**40.00**
36215	36242	100	50	150	32	28	**45.00**
36218	36245	200	100	300	40	28	**55.00**
36221	36248	300	200	450	54	30	**65.00**
36224	36251	500	300	750	53	36	**80.00**
*36227	36254	800	500	1200	50	45	**120.00**
*36230	36257	1200	800	1800	80	55	**160.00**

DOUBLE POLE, 250 VOLTS, BACK CONNECTED

36205	36232	15	10	25	48	42	**$52.00**
36208	36235	25	15	40	48	42	**52.00**
36211	36238	50	25	75	48	42	**55.00**
36214	36241	100	50	150	48	42	**60.00**
36217	36244	200	100	300	48	42	**70.00**
36220	36247	300	200	450	102	54	**90.00**
36223	36250	500	300	750	102	50	**120.00**
*36226	36253	800	500	1200	144	130	**200.00**
*36229	36256	1200	800	1800	144	130	**250.00**

*Mounted on 1½″ base.

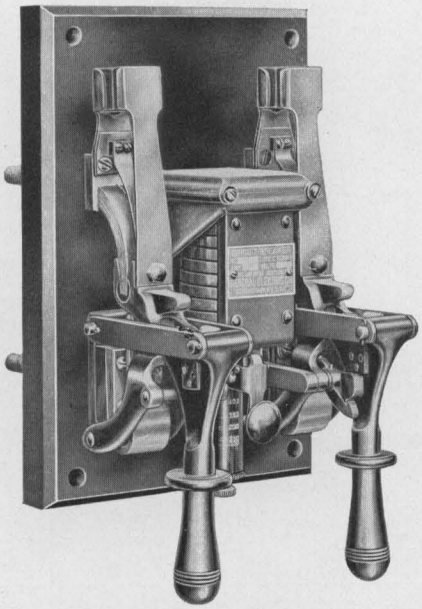
NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud, and no terminals.

See table of nuts and terminals on page 124.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

Direct Current Underload



DOUBLE POLE CIRCUIT BREAKER

SINGLE-POLE, 250 VOLTS, BACK CONNECTED

Cat. No.		Ampere Capacity	Approximate Shipping Weight Lbs.		List Price
Mounted on 1¼" Slate Base	For 1½" or 2" Panel		On Base	For Panel	
42074	42101	15	40	24	**$45.00**
42077	42104	25	40	24	**45.00**
42080	42107	50	40	24	**47.00**
42083	42110	100	40	24	**52.00**
42086	42113	200	40	24	**60.00**
42089	42116	300	48	32	**70.00**
42092	42119	500	48	32	**85.00**
*42095	42122	800	50	43	**130.00**
*42098	42125	1200	50	43	**165.00**
SINGLE-POLE, 650 VOLTS, BACK CONNECTED					
42076	42103	15	51	26	**$48.00**
42079	42106	25	25	26	**48.00**
42082	42109	50	25	31	**50.00**
42085	42112	100	32	28	**55.00**
42088	42115	200	40	28	**65.00**
42091	42118	300	54	30	**75.00**
42094	42121	500	53	36	**90.00**
*42097	42124	800	50	45	**135.00**
*42100	42127	1200	80	55	**175.00**
DOUBLE-POLE, 250 VOLTS, BACK CONNECTED					
42075	42102	15	48	42	**$62.00**
42078	42105	25	48	42	**62.00**
42081	42108	50	48	42	**65.00**
42084	42111	100	48	42	**70.00**
42087	42114	200	48	42	**80.00**
42090	42117	300	102	54	**100.00**
42093	42120	500	102	54	**130.00**
*42096	42123	800	144	130	**215.00**
*42099	42126	1200	144	130	**265.00**

*Mounted on 1½" base.

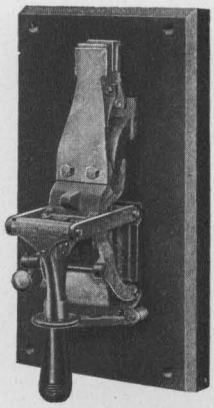
NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

See table of nuts and terminals on page 124.

NOTE—Underload breakers can be set to trip between the minimum limit of 10% and the maximum limit of 20% of their carrying capacity.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

Alternating Current Overload



SINGLE-POLE CIRCUIT BREAKER

SINGLE-POLE, 250 VOLTS, BACK CONNECTED

Cat. No.		Ampere Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Mounted on 1¼" Slate Base	For 1½" or 2" Panel		Min.	Max.	On Base	For Panel	
40877	40904	15	10	25	40	24	**$40.00**
40880	40907	25	15	40	40	24	**40.00**
40883	40910	50	25	75	40	24	**44.00**
40886	40913	100	50	150	40	24	**50.00**
40889	40916	200	100	300	40	24	**60.00**
40892	40919	300	200	450	48	32	**70.00**
40895	40922	500	300	750	48	32	**90.00**
‡40898	*40925	800	500	1200	50	43	**140.00**
	†40931	800	500	1200	50	43	**140.00**
‡40901	*40928	1200	800	1800	50	43	**180.00**
	†40934	1200	800	1800	50	43	**180.00**
SINGLE-POLE, 750 VOLTS, BACK CONNECTED							
40879	40906	15	10	25	51	26	**$44.00**
40882	40909	25	15	40	25	26	**44.00**
40885	40912	50	25	75	25	31	**48.00**
40888	40915	100	50	150	32	28	**55.00**
40891	40918	200	100	300	40	28	**65.00**
40894	40921	300	200	450	54	30	**75.00**
40897	40924	500	300	750	53	36	**95.00**
‡40900	*40927	800	500	1200	50	45	**145.00**
	†40933	800	500	1200	50	45	**185.00**
40903	*40930	1200	800	1800	80	55	**145.00**
	†40936	1200	800	1800	80	55	**185.00**
DOUBLE-POLE, 250 VOLTS, BACK CONNECTED							
40878	40905	15	10	25	48	42	**$70.00**
40881	40908	25	15	40	48	42	**70.00**
40884	40911	50	25	75	48	42	**75.00**
40887	40914	100	50	150	48	42	**80.00**
40890	40917	200	100	300	48	42	**90.00**
40893	40920	300	200	450	102	30	**110.00**
40896	40923	500	300	750	102	54	**140.00**
‡40899	*40926	800	500	1200	144	130	**230.00**
	†40932	800	500	1200	144	130	**230.00**
‡40902	*40929	1200	800	1800	144	140	**280.00**
	†40935	1200	800	1800	144	140	**280.00**

*For mounting on 1½" panel.
†For mounting on 2" panel.
‡Mounted on 1¼" base.

NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.

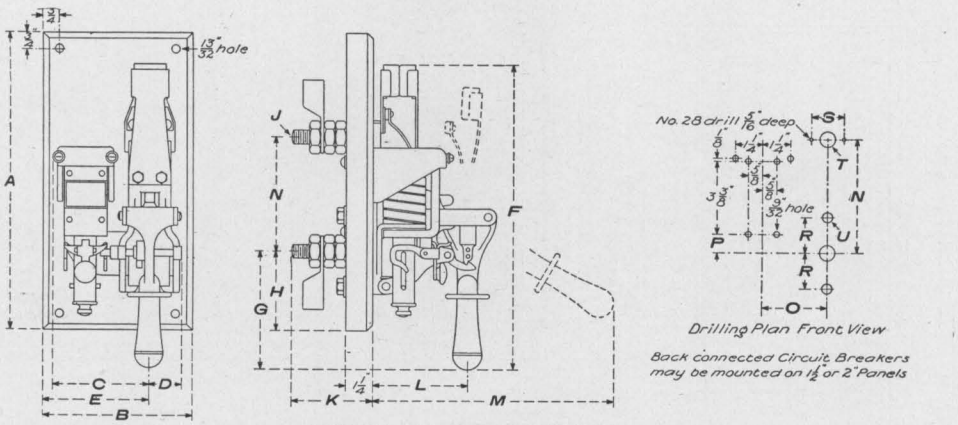
NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

See table of nuts and terminals on page 124.

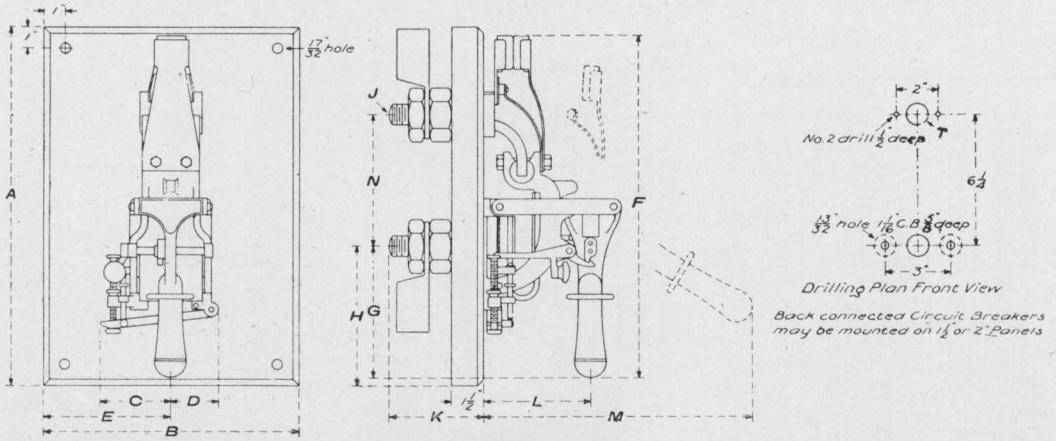
AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

Dimensions

SINGLE-POLE



15 TO 500 AMPERE CAPACITIES



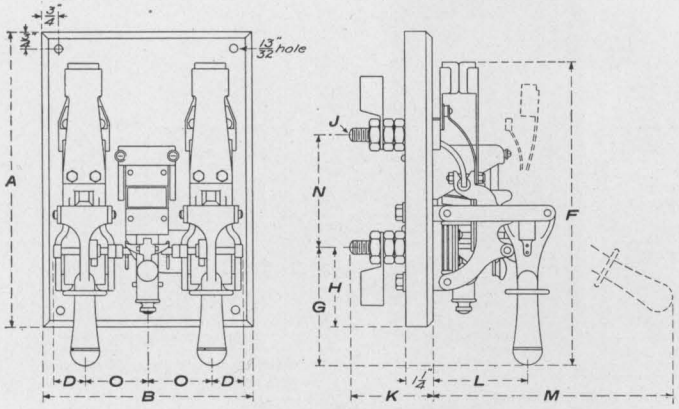
800 TO 1200 AMPERE CAPACITIES

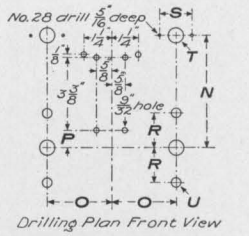
Cat. No.		Amps.	Volts	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U
With Base	For Panel																					
36204	36231	15																				
36207	36234	25	250	12	6	3 7/8	7/8	4 3/8	12 1/8	4 1/16	3	3/8–16 th'ds	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	9/16	3/8
36210	36237	50																				
36213	36240	100																				
36216	36243	200	250	12	6	3 7/8	7/8	4 3/8	12 1/8	4 1/16	3	1/2–13 "	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	9/16	3/8
36219	36246	300	250	14	7	4 1/2	1 7/16	5	14 1/2	5 1/2	3 3/4	5/8–11 "	4 1/2	4 7/16	11 1/2	5 3/4	3	7/8	1 5/8	1 1/2	11/16	7/16
36222	36249	500	250	14	7	4 1/2	1 7/16	5	14 1/2	5 1/2	3 3/4	5/8–12 "	4 1/2	4 7/16	11 1/2	5 3/4	3	7/8	1 5/8	1 1/2	13/16	7/16
36225	36252	800	250	17	12	3 3/8	2 1/4	6	16 3/16	6 1/4	6 1/2	1 –12 "	4 1/2	5	12 3/4	6 1/4	—	—	—	—	1 1/16	—
36228	36255	1200	250	17	12	3 3/8	2 1/4	6	16 3/16	6 1/4	6 1/2	1 1/4–12 "	5 1/2	5	12 3/4	6 1/4	—	—	—	—	1 5/16	—
36206	36233	15																				
36209	36236	25	650	13	6	3 7/8	7/8	4 3/8	13 1/8	4 1/16	3	3/8–16 "	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	7/16	3/8
36212	36239	50																				
36215	36242	100																				
36218	36245	200	650	13	6	3 7/8	7/8	4 3/8	13 1/8	4 1/16	3	1/2–13 "	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	9/16	3/8
36221	36248	300	650	15 1/2	7	4 1/2	1 7/16	5	15 9/16	5 1/2	3 3/4	5/8–11 "	4 1/2	4 7/16	11 1/2	5 3/4	3	7/8	1 5/8	1 1/2	11/16	7/16
36224	36251	500	650	15 1/2	7	4 1/2	1 7/16	5	15 9/16	5 1/2	3 3/4	5/8–12 "	4 1/2	4 7/16	11 1/2	5 3/4	3	7/8	1 5/8	1 1/2	13/16	7/16
36227	36254	800	650	18	12	3 3/8	2 1/4	6	17 1/2	6 1/4	6 1/2	1 –12 "	4 1/2	5	13 1/4	6 1/4	—	—	—	—	1 1/16	—
36230	36257	1200	650	18	12	3 3/8	2 1/4	6	17 1/2	6 1/4	6 1/2	1 1/4–12 "	5 1/2	5	13 1/4	6 1/4	—	—	—	—	1 5/16	—

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

Dimensions

DOUBLE-POLE

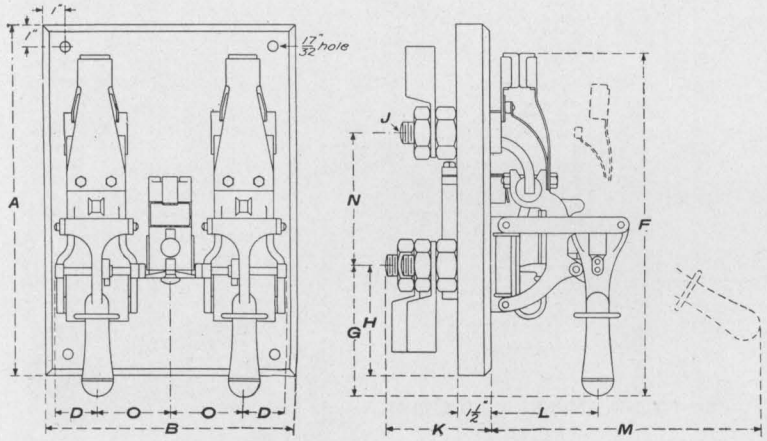


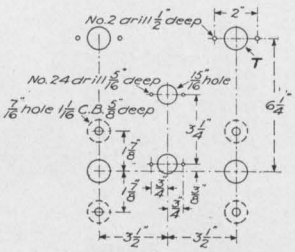


Drilling Plan Front View

Back connected Circuit Breakers may be mounted on 1½ or 2" Panels

15 TO 500 AMPERE CAPACITIES





Drilling Plan Front View

Back connected Circuit Breakers may be mounted on 1½ or 2" Panels

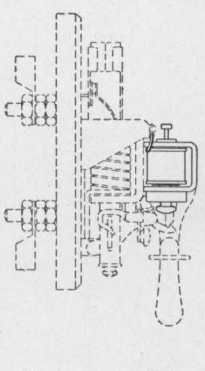
800 TO 1200 AMPERE CAPACITIES

Cat. No.		Amp.	Volts	A	B	D	F	G	H	J	K	L	M	N	O	P	R	S	T	U
With Base	For Panel																			
36205	36232	15	250	12	8	7/8	12 1/8	11/16	3	3/8–16 th'ds	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	7/16	3/8
36208	36235	25																		
36211	36238	50																		
36214	36241	100																		
36217	36244	200	250	12	8	7/8	12 1/8	4 11/16	3	1/2–13 "	4 1/2	3 7/8	9 5/8	4 3/4	2 3/8	1	1 5/16	7/8	9/16	3/8
36220	36247	300	250	14	10	1 7/16	14 1/4	5 1/2	3 3/4	5/8–11 "	4 1/2	4 7/8	11 1/4	5 3/8	3	7/8	1 1/8	1 1/2	11/16	7/16
36223	36250	500	250	14	10	1 7/16	14 1/4	5 1/2	3 3/4	3/4–12 "	4 1/2	4 7/16	11 1/4	5 3/8	3	7/8	1 1/8	1 1/2	13/16	7/16
36226	36253	800	250	17	12	1 15/16	16 3/16	6 1/2	5 1/4	1 –12 "	*5 1/4	5	12 3/4	6 1/4	3 1/2	—	—	—	1 1/16	—
36229	36256	1200	250	17	12	1 15/16	16 3/16	6 3/4	5 1/4	1 1/4–12 "	*6 1/4	5	12 3/4	6 1/4	3 1/2	—	—	—	1 1/16	—

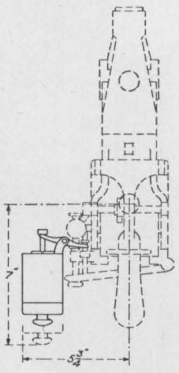
* The right-hand lower stud is made longer on account of the magnet yoke. The remaining three studs are three-fourths inch shorter.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM P

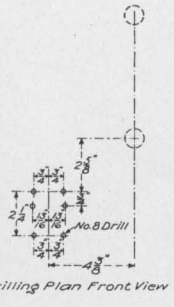
Attachments



Single or Double Pole
15 to 500 Amperes



Single Pole
800 to 1200 Amperes



Drilling Plan Front View

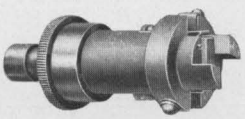
†SHUNT TRIP ATTACHMENTS

Cat. No. of Attachment		Voltage of Circuit	Description of Circuit Breaker		List Price
Alt. Current	Direct Current		Ampere Capacity	Poles	
36267	36267	125–250–650–750	15 to 500	Single- & Double-Pole	**$12.00**
43371	36269	125–250–650–750	800 & 1200	Single-Pole	**12.00**
36268	36268	125–250–650–750	800 & 1200	Double-Pole	**12.00**

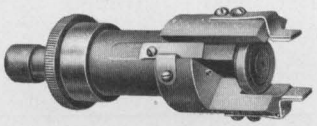
*LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. of Attachment		Voltage of Circuit	Approx. Releasing Voltage	Description of Circuit Breaker		List Price	
Alt. Current	Direct Current			Ampere Capacity	Poles	Alt. Current	Direct Current
43362	36258	125	60	15 to 500	Single- & Double-Pole	**$21.00**	**$16.00**
43368	36264	125	60	800 & 1200	Single-Pole	**21.00**	**16.00**
43365	36261	125	60	800 & 1200	Double-Pole	**21.00**	**16.00**
43363	36259	250	125	15 to 500	Single- & Double-Pole	**21.00**	**16.00**
43369	36265	250	125	800 & 1200	Single-Pole	**21.00**	**16.00**
43366	36262	250	125	800 & 1200	Double-Pole	**21.00**	**16.00**
43364	36260	650	325	15 to 500	Single-Pole	**21.00**	**16.00**
43370	36266	650	325	800 & 1200	Single-Pole	**21.00**	**16.00**

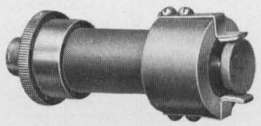
†Should be allowed to remain in circuit only momentarily.
*Release at approximately one-half rated voltage.



CIRCUIT-CLOSING AUXILIARY SWITCH



COMBINED CIRCUIT-CLOSING AND CIRCUIT-OPENING AUXILIARY SWITCH

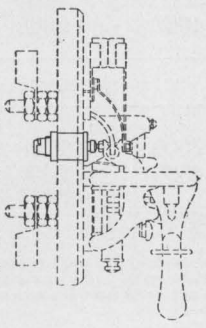


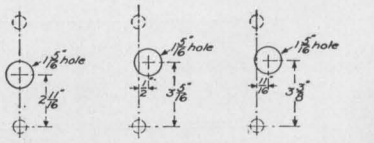
CIRCUIT-OPENING AUXILIARY SWITCH

Auxiliary Switches

FOR D. C. AND A. C. SINGLE AND DOUBLE-POLE

Circuit-Closing		Circuit-Opening		Combined Circuit-Closing and Circuit-Opening		Ampere Capacity of Circuit Breaker	For Mounting on
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price		
36270	**$6.00**	36278	**$6.00**	36286	**$11.00**	15 to 200	Base (1¼″ thick)
36271	**6.00**	36279	**6.00**	36287	**11.00**	15 to 200	1½″ Panel
36272	**6.00**	36280	**6.00**	36288	**11.00**	15 to 200	2″ Panel
36273	**6.00**	36281	**6.00**	36289	**11.00**	300 & 500	Base (1¼″ thick)
36274	**6.00**	36282	**6.00**	36290	**11.00**	300 & 500	1½″ Panel
36275	**6.00**	36283	**6.00**	36291	**11.00**	300 & 500	2″ Panel
*36276	**6.00**	*36284	**6.00**	*36292	**11.00**	800 & 1200	1½″ Panel or
*36277	**6.00**	*36285	**6.00**	*36293	**11.00**	800 & 1200	2″ Panel [Base
†43372	**6.00**	†43374	**6.00**	†43376	**11.00**	800 & 1200	1½″ Panel or
†43373	**6.00**	†43375	**6.00**	†43377	**11.00**	800 & 1200	2″ Panel [Base

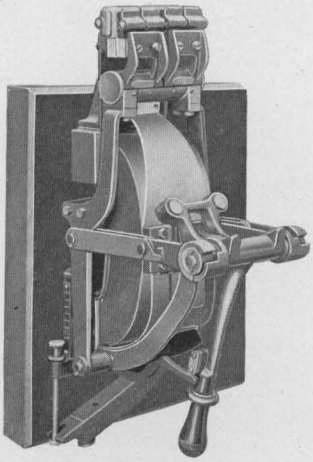




15 to 200 Amp. 300 and 500 Amp. 800 and 1200 Amp.
Drilling Plans Front View

*For D. C. single and double-pole and A. C. double-pole.
†For A. C. single-pole.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM K



SINGLE-POLE CIRCUIT BREAKER

Direct Current Overload

SINGLE POLE, 250 VOLTS

Cat. No.		Amp. Capacity	Calibration		Approximate Shipping Weight, Lbs.		List Price
Mounted on Base	For Mounting on 2″ Panel		Min.	Max.	On Base	For Panel	
29617	28921	2000	1200	4000	140	100	**$225.00**
	28922	4000	2000	10000		160	**400.00**
	*28923	6000	2000	15000		300	**650.00**
SINGLE-POLE, 650 VOLTS							
29619	28925	2000	1200	4000	160	110	**$260.00**
	28926	4000	2000	10000		190	**450.00**
	*28927	6000	2000	15000		320	**775.00**
	†28928	8000	2000	20000			**950.00**
	†28929	10000	2000	25000			**1,500.00**

Alternating Current Overload

SINGLE-POLE, 250 VOLTS

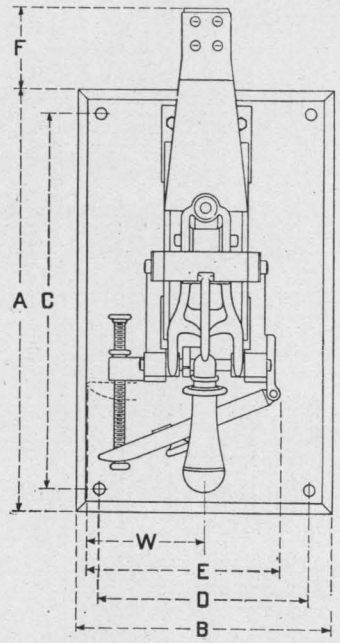
40871	40872	2000	1200	4000	145	105	**$300.00**
	40875	4000	2000	10000		170	**500.00**
SINGLE-POLE, 750 VOLTS							
40873	40874	2000	1200	4000	165	115	**$335.00**
	40876	4000	2000	10000		200	**550.00**

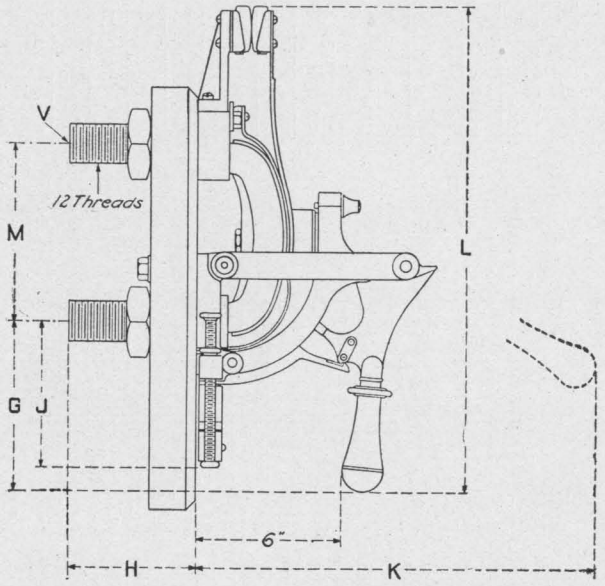
*For mounting on 2″ or 2½″ panel.
†For mounting on 2½″ panel only.
NOTE—Ampere capacity denotes the load which the breaker will carry continuously without excessive heating.
NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.
See table of nuts and terminals on page 124.

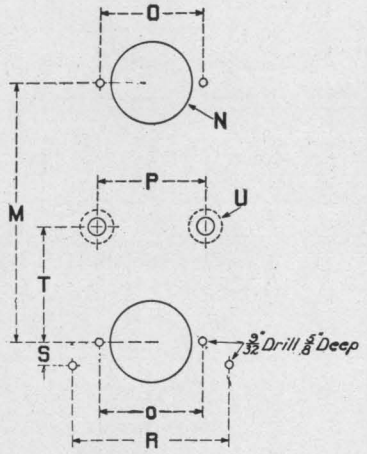
AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM K

250 Volts, Direct Current Overload

Dimensions







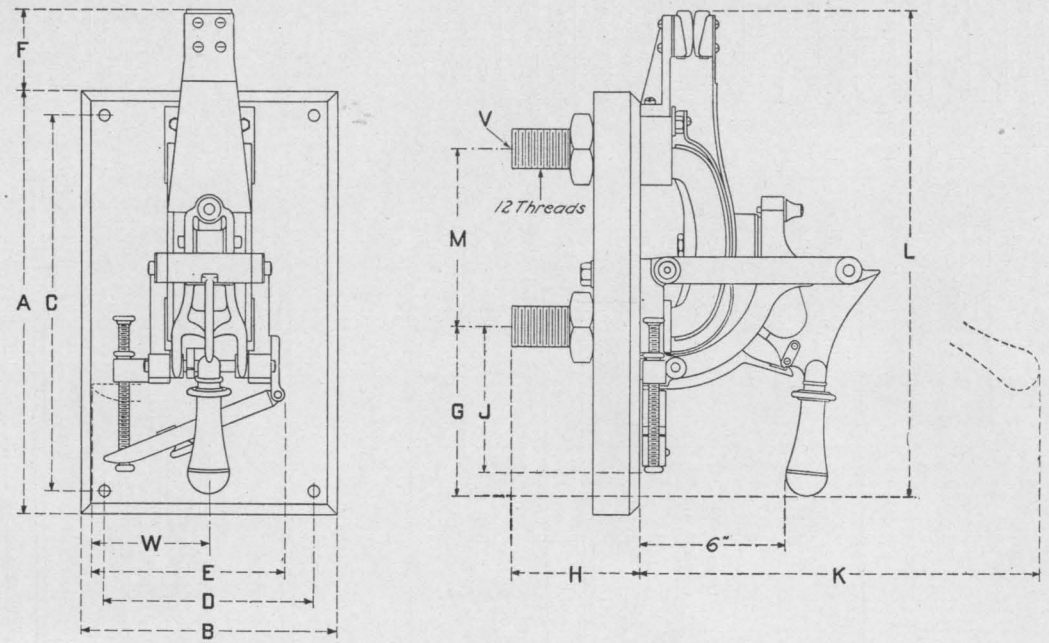
Cat. No.	Rating			A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W
S. P	Volts	Amps.																						
29617	250	1200–2000	with 2″ Base	18	11	16	9	$8\frac{3}{8}$	$3\frac{9}{16}$	$6\frac{13}{16}$	6	$6\frac{1}{8}$	$16\frac{3}{4}$	$20\frac{3}{8}$	$7\frac{3}{8}$	$1\frac{13}{16}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$4\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{4}$	$5\frac{3}{16}$
28921	250	1200–2000	for 2″ Panel					$8\frac{3}{8}$		$6\frac{13}{16}$	6	$6\frac{1}{8}$	$16\frac{3}{4}$	$20\frac{3}{8}$	$7\frac{3}{8}$	$1\frac{13}{16}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$4\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{4}$	$5\frac{3}{16}$
28922	250	2000–4000	for 2″ Panel					10		$8\frac{5}{8}$	7	$7\frac{5}{8}$	20	$23\frac{7}{8}$	9	$2\frac{9}{16}$	$3\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$\frac{7}{8}$	$2\frac{3}{8}$	$\frac{17}{32}$	$2\frac{1}{2}$	$5\frac{7}{8}$
28923	250	2000–6000	for 2″ or $2\frac{1}{2}$″ Panel					$10\frac{11}{16}$		$9\frac{3}{4}$	10	$8\frac{5}{16}$	$25\frac{5}{8}$	$28\frac{3}{8}$	$10\frac{5}{8}$	$3\frac{11}{32}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$6\frac{1}{2}$	1	$4\frac{3}{4}$	$\frac{21}{32}$–$1\frac{5}{8}$ C B	$3\frac{1}{4}$	$6\frac{1}{8}$

$\frac{21}{32}$–$1\frac{5}{8}$ C B: $\frac{1}{2}$″ deep for $2\frac{1}{2}$″ Panel only

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM K

650 Volts, Direct Current Overload

Dimensions



Cat. No.	Rating			A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	T	U	V	W
S. P.	Volts	Amps.																						
29619	650	1200 - 2000	with 2" Base	18	11	16	9	$8\frac{7}{16}$	$4\frac{1}{16}$	$6\frac{13}{16}$	6	$7\frac{1}{4}$	$16\frac{5}{8}$	$20\frac{7}{8}$	$7\frac{3}{8}$	$1\frac{13}{16}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$4\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{4}$	$5\frac{1}{16}$
28925	650	1200 - 2000	for 2" Panel					$8\frac{7}{16}$		$6\frac{13}{16}$	6	$7\frac{1}{4}$	$16\frac{5}{8}$	$20\frac{7}{8}$	$7\frac{3}{8}$	$1\frac{13}{16}$	$2\frac{3}{4}$	$2\frac{7}{8}$	$4\frac{1}{8}$	$\frac{9}{16}$	$2\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{4}$	$5\frac{1}{16}$
28926	650	1200 - 4000	for 2" Panel					$10\frac{11}{32}$		$8\frac{5}{8}$	7	$7\frac{3}{8}$	20	$24\frac{13}{16}$	9	$2\frac{9}{16}$	$3\frac{1}{4}$	$5\frac{1}{2}$	$5\frac{1}{2}$	$\frac{7}{8}$	$2\frac{3}{8}$	$\frac{17}{32}$	$2\frac{1}{2}$	$5\frac{7}{8}$
28927	650	1200 - 6000	for 2" or $2\frac{1}{2}$" Panel					$11\frac{1}{8}$		$9\frac{3}{4}$	10	$8\frac{5}{16}$	$25\frac{5}{8}$	$30\frac{1}{4}$	$10\frac{5}{8}$	$3\frac{11}{32}$	$4\frac{1}{4}$	$4\frac{1}{2}$	$6\frac{1}{2}$	1	$4\frac{3}{4}$	$\frac{21}{32}$-$1\frac{5}{8}$ C.B. $\frac{1}{2}$" deep for $2\frac{1}{2}$" Panel	$3\frac{1}{4}$	$6\frac{1}{8}$
28928	650	1200 - 8000	for $2\frac{1}{2}$" Panel					$11\frac{9}{16}$		$9\frac{1}{2}$	$11\frac{1}{2}$	$8\frac{3}{8}$	$27\frac{1}{2}$	$32\frac{1}{8}$	$12\frac{1}{2}$	$4\frac{3}{32}$	5	$4\frac{5}{8}$	$7\frac{1}{4}$	$1\frac{7}{16}$	$6\frac{1}{4}$	$\frac{11}{16}$	4	$6\frac{5}{16}$
28929	650	1200-10000	for $2\frac{1}{4}$" Panel					$13\frac{1}{16}$		$9\frac{3}{4}$	14	9	$30\frac{3}{8}$	$34\frac{3}{4}$	14	$4\frac{27}{32}$	6	$5\frac{1}{2}$	8	1	$6\frac{3}{4}$	$\frac{13}{16}$	$4\frac{3}{4}$	$7\frac{1}{8}$

For Reference Only.

AUTOMATIC CIRCUIT BREAKERS, CARBON BREAK, TYPE C, FORM K

250 and 650 Volts, Direct Current

Attachments

*LOW VOLTAGE RELEASE ATTACHMENTS

Cat. No. of Attachment	List Price	Voltage of Circuit	Approx. Releasing Voltage	For Circuit Breaker		Approx. Shipping Weight, Lbs.
				Amperes	Volts	
32466	**$16.00**	125	60	2000	250 or 650	10
32469	**16.00**	125	60	4000	250 or 650	10
32472	**16.00**	125	60	6000	250 or 650	10
32475	**16.00**	125	60	8000 or 10000	650	10
32465	**16.00**	250	125	2000	250 or 650	10
32468	**16.00**	250	125	4000	250 or 650	10
32471	**16.00**	250	125	6000	250 or 650	10
32474	**16.00**	250	125	8000 or 10000	650	10
32464	**16.00**	650	325	2000	650	10
32467	**16.00**	650	325	4000	650	10
32470	**16.00**	650	325	6000	650	10
32473	**16.00**	650	325	8000 or 10000	650	10

†SHUNT TRIP ATTACHMENTS

Cat. No. of Attachment	List Price	Voltage of Circuit	For Circuit Breaker		Approx. Shipping Weight, Lbs.
			Amperes	Volts	
32456	**$12.00**	125–250–650	2000	250 or 650	10
32457	**12.00**	125–250–650	4000	250 or 650	10
32458	**12.00**	125–250–650	6000	250 or 650	10
32459	**12.00**	125–250–650	8000 or 10000	650	10

AUXILIARY SWITCHES

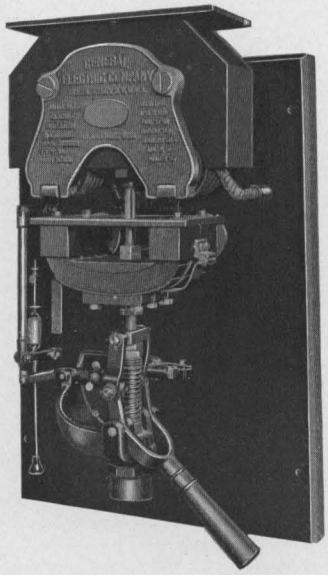
Circuit Closing		Circuit Opening		Combined Circuit-Opening and Circuit-Closing		For Circuit Breaker		For Mounting On
Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Amperes	Volts	
32496	**$6.00**	32484	**$6.00**	32508	**$11.00**	2000	250	2 ″ panel
32497	**6.00**	32485	**6.00**	32509	**11.00**	4000	250	2 ″ panel
32498	**6.00**	32486	**6.00**	32510	**11.00**	6000	250	2 ″ panel
32502	**6.00**	32490	**6.00**	32514	**11.00**	6000	250	2½″ panel
32492	**6.00**	32480	**6.00**	32504	**11.00**	2000	650	2 ″ panel
32493	**6.00**	32481	**6.00**	32505	**11.00**	4000	650	2 ″ panel
32494	**6.00**	32486	**6.00**	32506	**11.00**	6000	650	2 ″ panel
32499	**6.00**	32487	**6.00**	32511	**11.00**	6000	650	2½″ panel
32500	**6.00**	32488	**6.00**	32512	**11.00**	8000	650	2½″ panel
32501	**6.05**	32489	**6.00**	32513	**11.00**	10000	650	2½″ panel

*Release at approximately one-half rated voltage.
†Should be allowed to remain in circuit only momentarily.

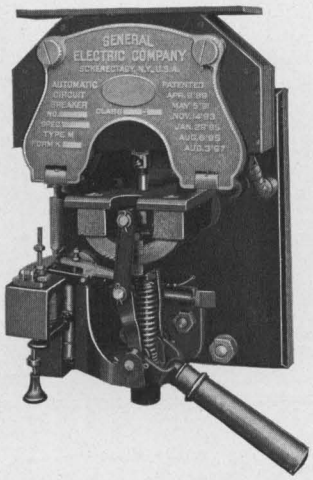
AUTOMATIC CIRCUIT BREAKERS, TYPE M

600 Volts, Direct Current

The General Electric Company manufactures four forms of Automatic Magnetic Blow-out Circuit Breakers for various classes of service. In the designation of the different forms the Type letter represents the general principle of operation; the Form letter is arbitrary and denotes some feature of construction. All magnetic blow-out breakers are known as Type M.



TYPE M, FORM K 3, MAGNETIC BLOW-OUT CIRCUIT BREAKER, Cat. No. 23844



TYPE M, FORM K CIRCUIT BREAKER WITH LOW VOLTAGE RELEASE AND TELL-TALE SWITCH

Type M, Forms K and K 3, 150 to 10000 Amperes

The Type M, Forms K and K 3 Circuit Breakers are designed for large currents, and are especially intended for severe service. All Form K and K 3 Circuit Breakers are equipped with a hinged front pole-piece, which readily permits of the removal and replacement of the pole-piece when it is found necessary to clean or repair the secondary contacts. Terminals or nuts for back connected breakers of this form are not supplied nor are they included in the price of complete breaker. These should always be ordered separately by catalogue numbers, table of which will be found on page 124.

FORM K

Cat. No. Front Connected	Cat. No. Back Connected	Amp. Capacity	Calibration Min.	Calibration Max.	Style of Handle	Approximate Shipping Weight, Lbs.	List Price
26732	26741	300	150	600	Locking Handle	220	$190.00
26733	26742	500	300	800	" "	225	210.00
26734	26743	800	500	1200	" "	240	210.00
26735	26744	1200	800	2000	" "	250	210.00
26728	26736	300	150	600	Fixed Handle	220	180.00
26729	26737	500	300	800	" "	225	200.00
26730	26738	800	500	1200	" "	240	200.00
26731	26739	1200	800	2000	" "	250	200.00
	26740	2000	1200	3000	" "	350	275.00

FORM K 3

	23840	3000	2000	10000	Fixed Handle	554	$450.00
	23841	4000	2000	12000	" "	560	600.00
	26745	6000	2000	18000	" "	563	800.00
	23843	8000	2000	20000	" "	575	1000.00
	23844	10000	2500	25000	" "	600	1500.00

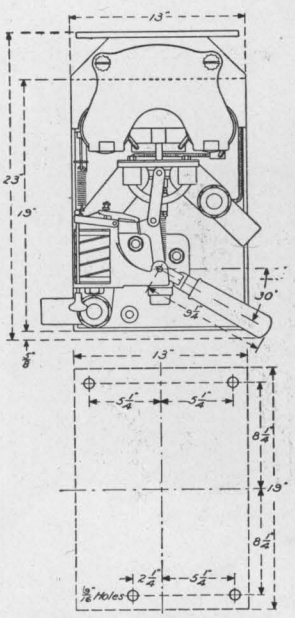
NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Capacities over 1200 amperes are supplied with two nuts only on each stud, and no terminals.

Nuts and terminals are listed on page 124.

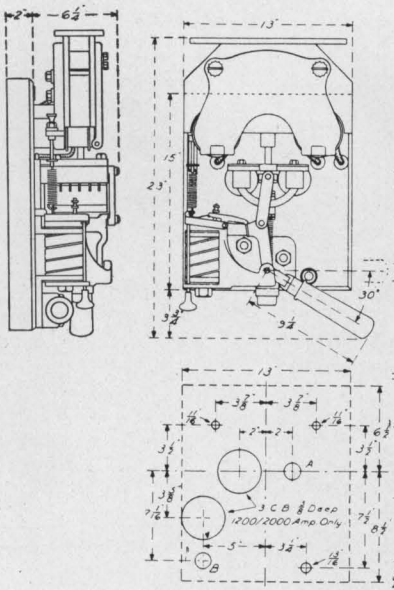
AUTOMATIC CIRCUIT BREAKERS, TYPE M

Dimensions of Form K and Form K 3 Circuit Breakers

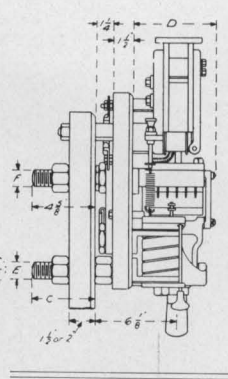
TYPE M, FORM K, 300 TO 2000 AMPERES, 550 VOLTS



Front Connected

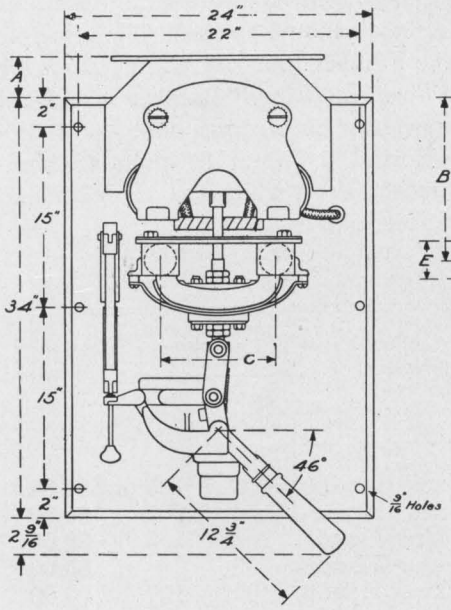


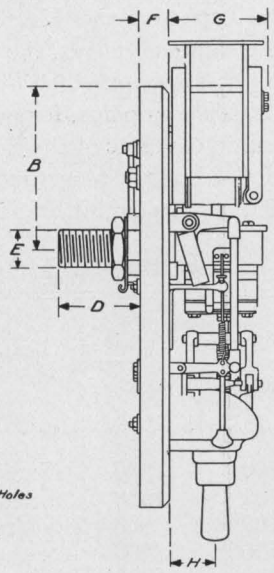
Back Connected



Rating		A	B	C	D	Threads	
Amps.	Volts					E	F
300	650	$1\frac{5}{16}$"	$\frac{13}{16}$"	$4\frac{3}{8}$"	$6\frac{1}{4}$"	$\frac{3}{4}$"-12	$1\frac{1}{4}$"-12
500	650	$1\frac{5}{16}$"	$\frac{13}{16}$"	$4\frac{3}{8}$"	$6\frac{1}{4}$"	$\frac{3}{4}$"-12	$1\frac{1}{4}$"-12
800	650	$1\frac{5}{16}$"	$1\frac{5}{16}$"	$4\frac{3}{8}$"	$6\frac{1}{4}$"	$1\frac{1}{4}$"-12	$1\frac{1}{4}$"-12
1200	650	$1\frac{5}{16}$"	$1\frac{5}{16}$"	$4\frac{3}{8}$"	$6\frac{1}{2}$"	$1\frac{1}{4}$"-12	$1\frac{1}{4}$"-12
2000	650	$1\frac{9}{16}$"	$1\frac{9}{16}$"	$5\frac{1}{8}$"	$6\frac{3}{8}$"	$1\frac{1}{2}$"-12	$1\frac{1}{2}$"-12

TYPE M, FORM K 3, 3000 TO 10000 AMPERES, 650 VOLTS



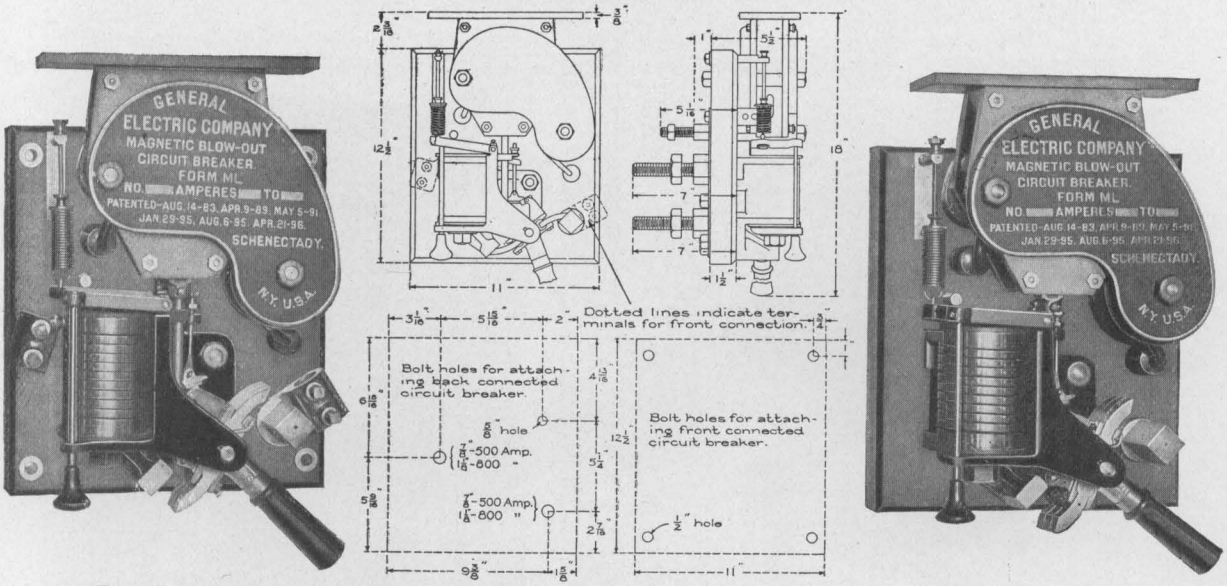


Rating		A	B	C	D
Amps.	Volts				
3000	650	$1\frac{1}{4}$"	14 "	$8\frac{1}{4}$"	$4\frac{5}{8}$"
4000	660	$1\frac{1}{4}$"	14 "	$8\frac{1}{4}$"	$6\frac{1}{8}$"
6000	650	$5\frac{1}{4}$"	$11\frac{3}{8}$"	9 "	$8\frac{1}{2}$"
8000	650	$5\frac{1}{4}$"	11 "	9 "	$8\frac{1}{2}$"
10000	650	$5\frac{1}{4}$"	11 "	9 "	10 "

Rating		E	F	G	H
Amps.	Volts				
3000	650	$2\frac{1}{4}$"	2 "	7 "	$3\frac{1}{2}$"
4000	650	$2\frac{1}{4}$"	2 "	7 "	$3\frac{1}{2}$"
6000	650	$3\frac{1}{4}$"	2 "	$8\frac{13}{16}$"	$4\frac{1}{2}$"
8000	650	4 "	$2\frac{1}{4}$"	$8\frac{13}{16}$"	$4\frac{1}{2}$"
10000	650	4 "	$2\frac{1}{4}$"	$8\frac{13}{16}$"	$4\frac{1}{2}$"

AUTOMATIC CIRCUIT BREAKERS, TYPE M

Form L 2, 100 to 800 Amperes



Front Connected

Back Connected

TYPE M, FORM L 2 CIRCUIT BREAKER, 100 TO 800 AMPERES

The General Electric Company manufactures the Type M, Form L 2 Circuit Breaker for use in small power plants where the conditions are not severe and where a breaker cheaper than the Type M, Form K, is desired. In large plants where severe conditions have to be met its use is not recommended. In all such cases the Type M, Form K Breaker should be used. The principle of action of the Form L 2 Breaker is the same as that of the Form K, but the moving parts are somewhat lighter and differ slightly in general form. The Form L 2 Circuit Breaker is made in two capacities—100-500 amperes and 200-800 amperes, for front or back connection.

As in the case of the Form K, the main contacts of the Form L 2 Circuit Breakers are laminated and connected in multiple with the secondary plug contact, upon which the arc is broken. The automatic locking handle is supplied on this circuit breaker.

Prices

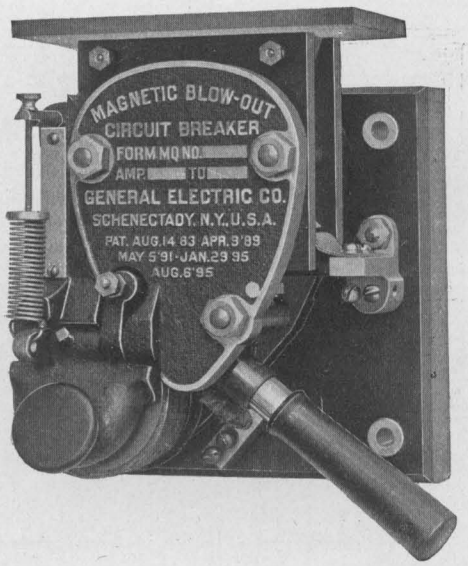
Cat. No.		Amp. Capacity	Calibration		Style of Handle	Approximate Shipping Weight, Lbs.		List Price
Front Connected	Back Connected		Min.	Max.		Front Connected	Back Connected	
23845	23847	500	100	800	Fixed Handle	102	105	**$80.00**
23846	23848	800	200	1200	Fixed Handle	104	107	**90.00**
23849	11309	500	100	800	Locking Handle	102	105	**80.00**
*23207		500	100	800	Locking Handle	105		**85.00**
23850	11310	800	200	1200	Locking Handle	104	107	**90.00**

*Fitted with wooden cover.

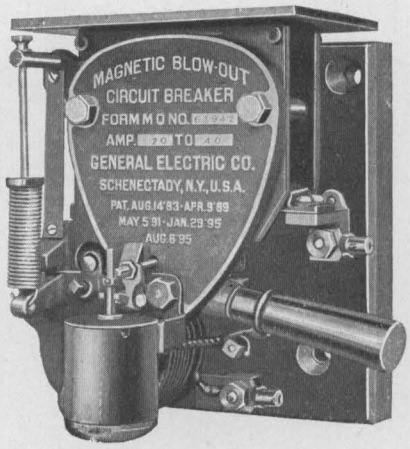
NOTE—All circuit breakers up to and including 1200 amperes are supplied with the necessary nuts and terminals.

AUTOMATIC CIRCUIT BREAKERS, TYPE M

Form Q, 15 to 175 Amperes



Front Connected



Front Connected, with Low Voltage Release

TYPE M, FORM Q MAGNETIC BLOW-OUT CIRCUIT BREAKER

The Type M, Form Q Circuit Breaker, which is made in capacities not exceeding 175 amperes, is designed especially for protecting power circuits and stationary motors. In general appearance it is somewhat similar to the Form L 2, but it has no secondary contact, though it has arcing tips to protect the main contacts. The current is broken on a segmental contact similar to the contacts used in railway controllers. This form of contact has been found amply sufficient for the maximum capacity of this Circuit Breaker. There is but one coil for both the tripping magnet and the magnetic blow-out. The magnetic circuit is so arranged that the arc is ruptured in its field. This breaker has proved very efficient and its use is unreservedly recommended.

Prices

Cat. No.		Amp. Capacity	Calibration		Style of Handle	Approximate Shipping Weight, Lbs.		List Price
Front Connected	Back Connected		Min.	Max.		Front Connected	Back Connected	
30622	30623	25	15	35	Fixed	15	15	**$30.00**
14391	14393	40	20	60	Fixed	32	35	**30.00**
14392	14394	100	50	150	Fixed	32	32	**30.00**
14395		*110	60	150	†Fixed	30		**35.00**
14354	14357	125	70	200	Fixed	45	45	**35.00**
14351	14356	175	100	300	Fixed	45	45	**35.00**
14396		*200	100	250	†Fixed	30		**35.00**
14390		*400	200	400	†Fixed	45		**35.00**

*Rating based on intermittent current.
†Fitted with wooden cover.

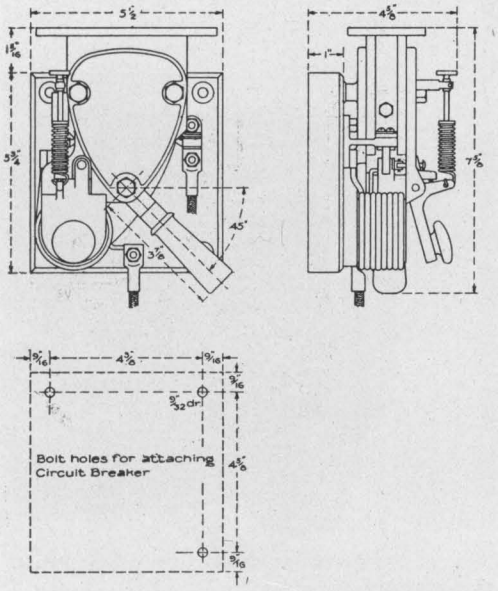
NOTE—All circuit breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities over 1200 amperes are supplied with two nuts only on each stud and no terminals.

See table of nuts and terminals on page 124.

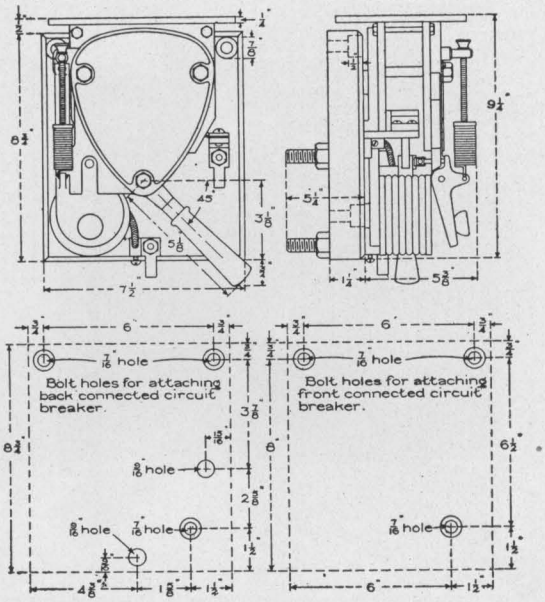
NOTE—Ampere capacity denotes the load which the breaker will carry continuously without overheating.

AUTOMATIC CIRCUIT BREAKERS, TYPE M

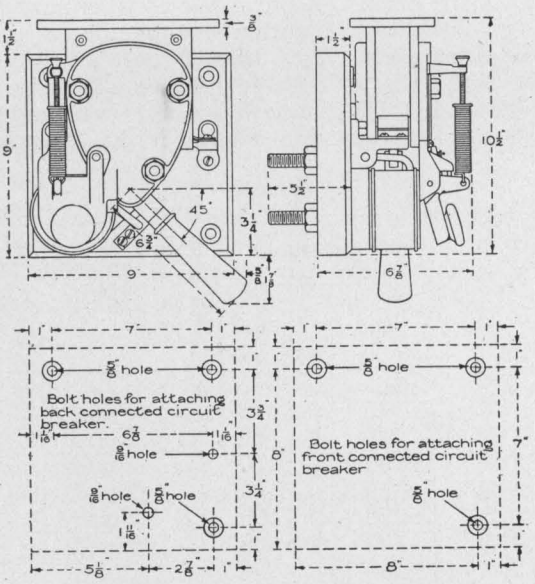
Form Q—Dimensions



TYPE M, FORM Q, 15 TO 25 AMPERES



TYPE M, FORM Q, 20 TO 100 AMPERES



TYPE M, FORM Q, 50 TO 175 AMPERES

AUTOMATIC CIRCUIT BREAKERS, TYPE M

Low Voltage Release Coils

FOR FORM Q CIRCUIT BREAKERS, 650 VOLTS

Cat. No.	Voltage of Circuit	Approx. Tripping Voltage	List Price	For Circuit Breaker	
				Amp. Cap.	Description
27799	550	270	**$16.00**	25	Back Connected
27800	250	125	**14.50**		" "
27801	125	60	**14.00**		" "
27805	550	270	**16.00**	40 to 100	" "
27806	250	125	**14.50**		" "
27807	125	60	**14.00**		" "
28827	550	270	**16.00**	125 to 175	" "
28828	250	125	**14.50**		" "
28829	125	60	**14.00**		" "
27802	550	270	**16.00**	25	Front Connected
27803	250	125	**14.00**		" "
27804	125	60	**13.50**		" "
27808	550	270	**16.00**	40 to 100	" "
27809	250	125	**14.00**		" "
27810	125	60	**13.50**		" "
28830	550	270	**16.00**	125 to 175	" "
28831	250	125	**14.00**		" "
28832	125	60	**13.50**		" "

FOR FORM L 2 CIRCUIT BREAKERS, 650 VOLTS

27796	550	270	**$18.00**	500 to 800	Back & Front Con't'd
27797	250	125	**16.50**		" " " "
27798	125	60	**16.00**		" " " "

FOR FORM K CIRCUIT BREAKERS, 650 VOLTS

27790	550	270	**$18.50**	300 to 2000	Back Connected
27791	250	125	**17.00**		" "
27792	125	60	**16.50**		" "
27793	550	270	**20.00**	300 to 1200	Front Connected
27794	250	125	**18.50**		" "
27795	125	60	**18.00**		" "

FOR FORM K 3 CIRCUIT BREAKERS, 650 VOLTS

30603	550	270	**$18.50**	3000 to 4000	Back Connected
30604	250	125	**17.00**		" "
30605	125	60	**16.50**		" "
30606	550	270	**20.00**	6000 to 10000	" "
30607	250	125	**18.50**		" "
30608	125	60	**18.00**		" "

Approximate shipping weight of Low Voltage Release Coils is 5 lbs.

AUXILIARY SWITCHES (CIRCUIT CLOSING) FOR TYPE M CIRCUIT BREAKERS

Cat. No.	List Price	For Circuit Breaker	
		Type	Ampere Capacity
27788	**$16.50**	Q	25 to 100
27789	**15.00**	Q	125 to 400
27785	**10.00**	K	300 to 2000
27786	**10.00**	K-3	3000 to 4000
27787	**10.00**	K-3	6000 to 10000

AUTOMATIC CIRCUIT BREAKERS

Nuts and Terminals for Type C and Type M Circuit Breakers

All Circuit Breakers of capacities up to and including 1200 amperes are supplied with the necessary nuts and terminals. Breakers of capacities above 1200 amperes are supplied with two nuts only on each stud and no terminals. The following tables give the nuts and terminals which are used with the various Circuit Breakers in our standard practice.

NUTS FOR TYPE M, FORMS K AND K 3 CIRCUIT BREAKERS

Cat. No.	List Price per 100	Approximate Shipping Weight, Lbs.	Thickness (Inches)	Diam. Across Flats (Inches)	Diam. of Stud (Inches)	Shape	Number Required per Stud	Amp. Capacity of Circuit Breaker
26965	**$186.00**	2	1	3	1½	Hex.	1	2000
26966	**122.50**	3	1	3½	2¼	Hex.	2	3000
26967	**360.00**	3	1	3⅞	2¾	Hex.	2	4000
26968	**315.00**	3	1	4⅝	3¼	Oct.	3	6000
26969	**450.00**	4	1	5⅜	4	Oct.	5	8000
26970	**506.50**	6	1	6	4½	Oct.	7	10000

NOTE—The number of nuts per stud given in the above tables is in addition to the two that are supplied with the breaker. In the tables the 2000/10000 ampere capacity circuit breakers have their terminals marked "Special" as we seldom use terminals on this capacity. If terminals are required they can be furnished "Special" if full information is given.

NUTS FOR TYPE C, FORM K CIRCUIT BREAKERS, 250 OR 650 VOLTS

Cat. No.	List Price per 100	Approximate Shipping Weight, Lbs.	Thickness (Inches)	Diam. Across Flats (Inches)	Diam. of Stud (Inches)	Shape	Number Required per Stud	Amp. Capacity of Circuit Breaker
26972	**$185.00**	3	1	3	1¾	Hex.	1	2000
26974	**360.00**	3	1	3⅞	2¼	Hex.	2	4000
26968	**315.00**	3	1	4⅝	3¼	Oct.	3	6000
26969	**450.00**	4	1	5⅜	4	Oct.	5	8000
31745	**450.00**	6	1	6	4¾	Oct.	6	10000

TERMINALS FOR TYPE M, FORMS K AND K 3 CIRCUIT BREAKERS, 650 VOLTS

Cat. No.	Quantity per Stud	List Price per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Ampere Capacity of Circuit Breaker
26797	2	**$700.00**	2–1,500,000	1½	2000
26798	1	**725.00**	3–1,500,000	1½	3000
26799	2	**700.00**			
26949	1	**750.00**	3–2,000,000	1¾	4000
26948	2				
26950	4	**800.00**	4–2,000,000	1¾	6000
26952	6	**800.00**	6–2,000,000	1¾	8000
			Special		10000

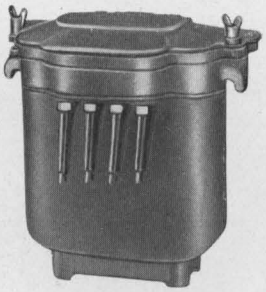
NOTE—Unless the diameter of the cable hole is specifically given in inches, terminals will be drilled to fit cable mentioned in above lists. Terminals will not take larger cable than specified. Terminals cannot be interchanged, as the size of studs varies on different breakers.

TERMINALS FOR TYPE C, FORM K CIRCUIT BREAKERS, 250 OR 650 VOLTS

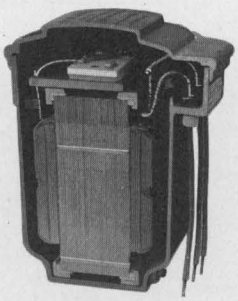
Cat. No.	Quantity per Stud	Price List per 100	No. and Size of Cable (Circular Mills)	Size of Cable Hole (Inches)	Ampere Capacity of Circuit Breaker
27448	2	**$700.00**	2–1,500,000	1½	2000
27453	1	**750.00**	3–2,000,000	1¾	4000
27452	2				
26950	4	**800.00**	4–2,000,000	1¾	6000
26952	6	**800.00**	6–2,000,000	1¾	8000
			Special		10000

Approximate shipping weight of terminals is 12 lbs.

TYPE H, 60 CYCLE TRANSFORMERS



EXTERIOR



SECTION

Two standard lines of Type H Transformers known as Type H and Type HB are manufactured by the General Electric Company.

The transformers listed as Type H have slightly lower core losses than those known as Type HB, and should be used except where fuel is cheap or water power is available and the stations are operated twelve hours daily, or where the first cost is the ruling consideration.

Single-Phase—Primary Voltage, 1040/2080

Frequency Limits, 50-140; Normal Frequency, 60 Cycles

Pole Type

Watts	Cat. No. Primary Volts 1040/2080 Secondary Volts 104/208	Cat. No. Primary Volts 1040/2080 Secondary Volts 115/230	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	24041	24036	102	3.5	CK 1	Prices on application
1000	24042	24037	117	4.5	CK 2	
1500	24043	24038	150	5.5	CK 4	
2000	24044	24039	190	7.5	CK 6	
2500	24045	24040	215	6.5	CK 6	
3000	4125	4161	220	6.5	CK 6	
4000	4127	4164	295	12	CK 9	
5000	4129	4167	310	14	CK 14	
7500	4133	4173	490	18.5	CK 19	
10000	4135	4176	670	25	CK 23	
15000	4137	4179	750	57	CK 77	
20000	4139	4182	1010	75	CK 80	
25000	4141	4185	1130	85	CK 82	
30000	4143	4188	1235	80	CK 82	
40000	4025	4026	1410	96	CK 84	
50000	4095	4096	1670	112	CK 86	

All of the above transformers may be used on three-wire service.

Transformers for 1040 or 2080 volt service have porcelain connection boards for the primary coils, by means of which they may be adapted for either circuit. The secondary voltage may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1040 volts the 40 and 50 Kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

TYPE H, 60 CYCLE TRANSFORMERS

Frequency Limits, 50-140; Normal Frequency, 60 Cycles

Pole Type

Single-Phase—Primary Voltage, 1200/2400

Watts	Cat. No Primary Volts 1200/2400 Sec Volts 120/240	Approx. Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	24000	102	3.5	CK 1	Prices on application
1000	24001	117	4.5	CK 2	
1500	24002	150	5.5	CK 4	
2000	24003	190	7.5	CK 6	
2500	24004	215	6.5	CK 6	
3000	24005	220	6.5	CK 6	
4000	24006	295	12	CK 9	
5000	24007	310	14	CK 14	
7500	24008	490	18.5	CK 19	
10000	24009	670	25	CK 23	
15000	24010	750	57	CK 77	
20000	24011	1010	75	CK 80	
25000	24012	1130	85	CK 82	
30000	24013	1235	80	CK 82	
40000	24014	1410	96	CK 84	
50000	24015	1670	112	CK 86	

All the above transformers may be used on three-wire service.

Single-Phase—Primary Voltage, 1560/3120

Watts	Cat. No. Primary Volts 1560/3120 Secondary Volts 115	Cat. No. Primary Volts 1560/3120 Secondary Volts 115/230	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	3750		102	3.5	CK 1	Prices on application
1000	3751		117	4.5	CK 2	
1500	3752		150	5.5	CK 4	
2000	3753		190	7.5	CK 6	
2500	3754		215	6.5	CK 6	
3000		3755	285	12	CK 9	
4000		3756	310	10.5	CK 10	
5000		3757	335	13	CK 14	
7500		3758	490	18.5	CK 19	
10000		3759	670	25	CK 23	
15000		3760	760	57	CK 77	
20000		3761	1010	75	CK 80	
25000		3762	1130	85	CK 82	
30000		3763	1235	80	CK 82	
40000		3764	1410	96	CK 84	
50000		3765	1670	112	CK 86	

All transformers with 115/230 volt secondaries may be used on three-wire service.

Transformers for 1200 or 2400 volt service and those for 1560 or 3120 volt service have porcelain connection boards for primary coils by means of which they may be adapted for either circuit. The secondary voltage of transformers wound for 120/240 or 115/230 volts, may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1200 volts, the 40 and 50 Kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

TYPE H, 60 CYCLE TRANSFORMERS

Single-Phase—Primary Voltage, 1040/2080

Frequency Limits, 50-140; Normal Frequency, 60 Cycles

Pole Type

Watts	Cat. No. Primary Volts 1040/2080 Secondary Volts 230/460	Cat. No. Primary Volts 1040/2080 Secondary Volts 575	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	31450	30461	102	3.5	CK 1	Prices on application
1000	31451	30462	117	4.5	CK 2	
1500	31452	30463	150	5.5	CK 4	
2000	31453	30464	190	7.5	CK 6	
2500	31454	30465	215	6.5	CK 6	
3000	31455	30466	220	6.5	CK 6	
4000	31456	30467	295	12	CK 9	
5000	31457	30468	330	13	CK 14	
7500	31458	30469	490	18.5	CK 19	
10000	31459	30470	670	25	CK 23	
15000	31460	30471	760	57	CK 77	
20000	31461	30472	1010	75	CK 80	
25000	31462	30473	1165	85	CK 82	
30000	31463	30474	1235	80	CK 82	
40000	31464	30525	1410	96	CK 84	
50000	31465	30526	1670	112	CK 86	

All transformers with 230/460 volts secondaries may be used on three-wire service.

Transformers for 1040 or 2080 volt service have porcelain connection boards for the primary coils, by means of which they may be adapted for either circuit. The secondary voltage may be changed by connections of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874; and transformer hanging hooks. If operated on 1040 volts, the 40 and 50 Kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

Single-Phase—Primary Voltage, 575

Frequency Limits, 40-140; Normal Frequency, 60 Cycles

Pole Type

Watts	Cat. No. Primary Volts 575 Secondary Volts 115/230	Approx. Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	24046	117	4.5	CK 2	Prices on application
1000	24047	150	5.5	CK 4	
1500	24048	190	7.5	CK 6	
2000	24049	215	6.5	CK 6	
2500	24050	220	6.5	CK 6	
3000	24051	295	12	CK 9	
4000	24052	320	14	CK 14	
5000	24053	345	13	CK 14	
7500	24054	500	18.5	CK 19	
10000	24055	670	25	CK 23	
15000	24056	760	57	CK 77	
20000	24057	1010	75	CK 80	
25000	24058	1175	85	CK 82	
30000	24059	1235	80	CK 82	
40000	24060	1410	96	CK 84	
50000	24061	1670	112	CK 86	

Transformers for 575 volt service have only one primary voltage. The secondary voltage may be changed by connection of the secondary leads outside of the transformers. Prices include oil, boxing, transformer hanging hooks, and two fuse boxes, Cat. No. 51874, except sizes 20 to 50 Kw. inclusive, which will be furnished with Cat. No. 5696 fuse boxes without additional charge.

TYPE HB, 60 CYCLE TRANSFORMERS

The Type HB Transformers listed in the following table have higher core losses than the Type H Transformers listed on page 125.

Single-Phase—Primary Voltage, 1040/2080

Frequency Limits, 60-140; Normal Frequency, 60 Cycles

Pole Type

Watts	Cat. No Primary Volts 1040/2080 Secondary Volts 52/104	Cat. No Primary Volts 1040/2080 Secondary Volts 104/208	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
600	3700		97	3.5	CK 1	Prices on application
1000	3701		113	4.5	CK 2	
1500	3702		145	5.5	CK 4	
2000	31482		150	5.5	CK 4	
2500	3703		200	6.5	CK 6	
3000		3716	205	6.5	CK 6	
4000		3705	285	12	CK 9	
5000		3706	290	14	CK 14	
7500		3708	405	14	CK 16	
10000		3709	490	18.5	CK 19	
15000		3710	699	35	CK 77	
20000		3711	750	75	CK 77	
25000		3712	1010	75	CK 80	
30000		3713	1300	85	CK 82	
40000		35271	1290	100	CK 84	
50000		35272	1500	120	CK 86	

All transformers with 104 or 208 volt secondaries may be used for three-wire service.

These transformers have porcelain connection boards for the primary coils, by means of which they may be adapted to either 1040 or 2080 volt circuits. The secondary voltage may be changed by connection of the secondary leads outside of the transformers. Prices include oil, boxing, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks. If operated on 1040 volts, the 40 and 50 Kw. sizes should be provided with fuse boxes, Cat. No. 5696, which should be specially ordered.

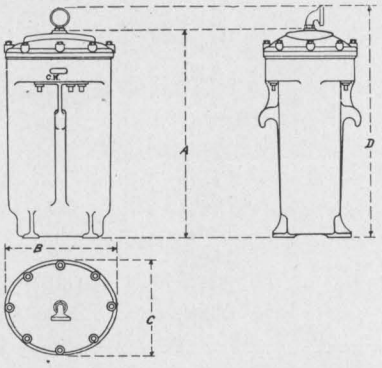


TYPE H, 60 CYCLE SUBWAY TRANSFORMERS

The General Electric Company manufactures Subway Transformers for standard voltages and in sizes from 5 to 50 Kw. These transformers are absolutely water-tight and are particularly adapted to meet the exacting conditions of underground service. With the exception of the cases, Subway transformers are similar in design and construction to the standard Type H transformers.

In the following table are listed some of the lines which have been developed for this work. The General Electric Company has, however, built Subway transformers to meet a variety of special conditions, and is prepared to submit prices on transformers designed for operation on special frequencies, voltages or on polyphase circuits.

DIMENSIONS OF TYPE H SUBWAY TRANSFORMERS



Single-Phase Subway Transformers—Primary Voltages, 1040/2080 and 1200/2400 Frequency Limits, 50-140; Normal Frequency, 60 Cycles

Watts	Cat. No. Primary Volts 1040/2080 Secondary Volts 104/208	115/230	1200/2400 Secondary Volts 120/240	Approx. Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	Dimensions in Inches A	B	C	D	List Price
5000	31511	31520	31529	465	24	CK 121	24	$17\frac{3}{4}$	$17\frac{3}{4}$	$28\frac{1}{8}$	Prices on application
7500	31512	31521	31530	675	26	CK 125	$30\frac{1}{4}$	$18\frac{3}{4}$	17	$34\frac{3}{8}$	
10000	31513	31522	31531	725	35	CK 125	$30\frac{1}{4}$	$18\frac{3}{4}$	17	$34\frac{3}{8}$	
15000	31514	31523	31532	790	57	CK 177	$34\frac{1}{2}$	$23\frac{1}{8}$	20	$38\frac{5}{8}$	
20000	31515	31524	31533	1050	74	CK 180	$38\frac{3}{4}$	$24\frac{3}{4}$	$22\frac{7}{8}$	$42\frac{7}{8}$	
25000	31516	31525	31534	1200	86	CK 182	$35\frac{5}{8}$	$27\frac{3}{4}$	$24\frac{1}{4}$	$39\frac{3}{4}$	
30000	31517	31526	31535	1270	81	CK 182	$35\frac{5}{8}$	$27\frac{3}{4}$	$24\frac{1}{4}$	$39\frac{3}{4}$	
40000	31518	31527	31536	1430	96	CK 184	$37\frac{1}{8}$	$29\frac{3}{4}$	$25\frac{3}{4}$	$41\frac{1}{4}$	
50000	31519	31528	31537	1700	112	CK 186	$40\frac{1}{2}$	$30\frac{3}{4}$	$27\frac{1}{4}$	$44\frac{5}{8}$	
*25000	31538	31541	31544	1260	65	CK 130	$40\frac{1}{8}$	$21\frac{1}{2}$	$18\frac{3}{4}$	$44\frac{1}{4}$	
*30000	31539	31542	31545	1460	74	CK 132	$46\frac{3}{8}$	$22\frac{1}{4}$	$19\frac{3}{8}$	$50\frac{1}{2}$	
*40000	31540	31543	31546	1780	80	CK 134	$50\frac{1}{8}$	$22\frac{3}{4}$	$19\frac{7}{8}$	$54\frac{1}{4}$	
*50000	40823	40824	40825	2140	100	CK 140	$50\frac{1}{4}$	25	25	$54\frac{3}{8}$	

*These transformers are designed to pass through a 26″ manhole.

Subway transformers for 1040 or 2080 volt service or for 1200 or 2400 volt service may be connected for either primary voltage by means of special terminals inside the case. A connection board provides means for connecting the secondary coils in series, three wire or in multiple.

Prices include oil and boxing, but do not include fuse boxes.

In selecting manholes for these transformers, not less than $\frac{1}{2}$″ should be added to the dimensions B and C to allow for clearance and variations in castings.

TYPE H, 25 CYCLE TRANSFORMERS

Single-Phase—Primary Voltage, 2080/2300

Frequency Limits, 25-30; Normal Frequency, 25 Cycles

Pole Type

Watts	Cat. No. Primary Volts 2080/2300 Secondary Volts 115/230	Approximate Shipping Weight Including Oil, Lbs.	Quarts Oil Required	Box Symbol	List Price
600	36014	153	5.5	CK 4	Prices on application
1000	36015	205	6.5	CK 6	
1500	36016	285	10	CK 9	
2000	36017	300	10.5	CK 10	
2500	36018	310	10.5	CK 10	
3000	31405	340	12	CK 14	
4000	31406	410	14	CK 16	
5000	31407	490	18.5	CK 19	
7500	31408	660	30	CK 25	
10000	31409	765	50	CK 77	
15000	31410	1135	70	CK 80	
20000	31411	1205	80	CK 82	
25000	31412	1345	96	CK 84	
30000	31413	1565	112	CK 86	
*40000	31414	2015	144	CK 90	
*50000	31415	2820	200	CK 200	

*Not for pole use

All of the above transformers may be used for three-wire service.

Watts	Cat. No. Secondary Volts 230/460	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Box Symbol	List Price
10000	33508	765	50	CK 77	Prices on application
15000	33509	1135	70	CK 80	
20000	33510	1205	80	CK 82	
25000	33511	1345	96	CK 84	
30000	33512	1565	112	CK 86	
*40000	33513	2015	144	CK 90	
*50000	33514	2820	200	CK 200	

*Not for pole use.

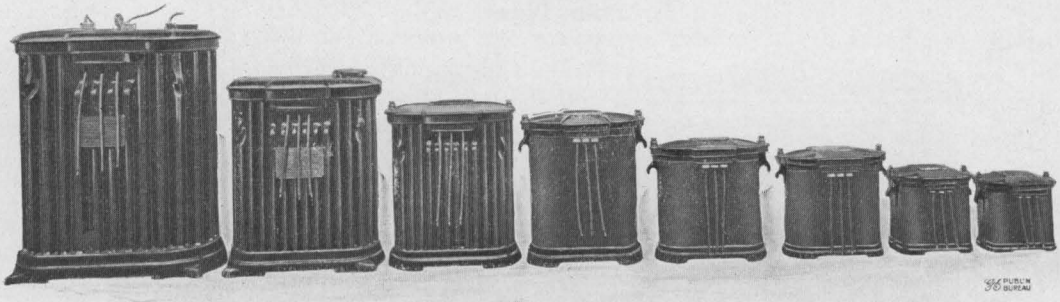
All of the above transformers may be used on three-wire service.

These transformers may be connected for either 2080 or 2300 volts primary. The secondary voltage may be changed by the connection of the secondary leads outside of the transformer. Prices include oil, two primary fuse boxes, Cat. No. 51874, and transformer hanging hooks except for 40 and 50 Kw. sizes. These transformers are not provided with hanging hooks as they are too heavy for pole suspension.

TYPE HT, 60 CYCLE TRANSFORMERS

Three-Phase

Frequency Limits, 50-140; Normal Frequency, 60 Cycles



THREE-PHASE TYPE HT TRANSFORMERS

The General Electric Company has developed a complete line of three-phase transformers of 2 Kw. to 50 Kw. capacity. The general construction of these is similar to that of Type H transformers, the principal difference being that there are three vertical legs instead of two as in the Type H transformer.

In addition to the transformers listed in the following pages, The General Electric Company is prepared to submit estimates on polyphase transformers to meet any special conditions of commercial service.

Primary Voltage, 2080

Watts	Cat. No. Secondary Volts 230/460	Cat. No. Secondary Volts 575	Approximate Shipping Weight, Including Oil, Lbs.	Quarts of Oil Required	Dimensions in Inches Height	Dimensions in Inches Floor Space	List Price
2000	42128	42137	330	16	17 "	$20\frac{1}{4}$" x $13\frac{3}{4}$"	Prices on application
3000	42129	42138	340	12	17 "	$20\frac{1}{4}$" x $13\frac{3}{4}$"	
5000	42130	35789	465	20	$20\frac{1}{4}$"	$21\frac{3}{4}$" x $17\frac{1}{8}$"	
7500	42131	35790	550	24	$22\frac{1}{4}$"	$23\frac{1}{4}$" x $18\frac{1}{8}$"	
10000	42132	35791	740	48	$28\frac{1}{2}$"	$30\frac{1}{8}$" x $18\frac{1}{8}$"	
15000	42133	35792	1000	80	$31\frac{5}{8}$"	$33\frac{1}{2}$" x $19\frac{5}{8}$"	
20000	42134	35793	1075	72	$39\frac{1}{2}$"	$34\frac{3}{4}$" x $20\frac{3}{8}$"	
30000	42135	35794	1500	100	$37\frac{1}{8}$"	$36\frac{1}{4}$" x $22\frac{1}{4}$"	
40000	42136	35795	1950	132	$42\frac{7}{8}$"	36 " x $21\frac{3}{8}$"	
50000	35788	35796	2000	120	$42\frac{7}{8}$"	36 " x $21\frac{3}{8}$"	

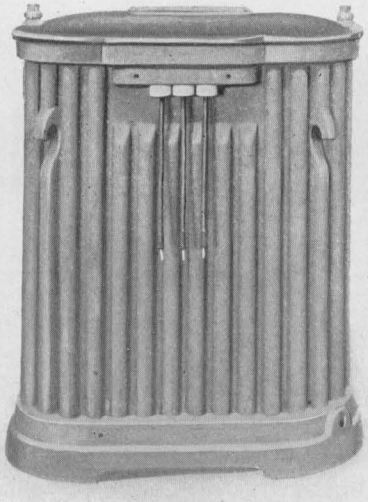
Transformers for 230 or 460 volt service have connection boards for the secondary coils by means of which they may be adapted to either circuit. Prices include oil, boxing, 3 primary fuse boxes, Cat. No. 51874, and transformer hanging hooks.

TYPE HT, 25 CYCLE TRANSFORMERS

Three-Phase

Frequency Limits, 25-30; Normal Frequency, 25 Cycles

Pole Type



EXTERIOR



INTERIOR

Cat. No. 31578

Primary Voltage, 2080/2300

Watts	Cat. No. Secondary Voltage 230/460	Approximate Shipping Weight Including Oil, Lbs.	Quarts of Oil Required	Dimensions in Inches: Height	Dimensions in Inches: Floor Space	List Price
5000	31575	550	28	$22\frac{1}{4}''$	$23\frac{1}{4}$ x $18\frac{1}{8}''$	Prices on application
7500	31576	725	48	$28\frac{1}{2}''$	$30\frac{1}{8}$ x $18\frac{1}{8}''$	
10000	31577	840	60	$31\frac{5}{8}''$	$33\frac{1}{2}$ x $19\frac{5}{8}''$	
15000	31578	1245	120	$39\frac{1}{2}''$	$34\frac{3}{4}$ x $20\frac{3}{8}''$	
20000	31579	1405	100	$37\frac{1}{8}''$	$36\frac{1}{4}$ x $22\frac{1}{4}''$	
30000	31580	1980	140	$42\frac{7}{8}''$	36 x $21\frac{3}{8}''$	
40000	31581	2100	140	$42\frac{7}{8}''$	36 x $21\frac{3}{8}''$	
*50000	31582	3000	200	$51\frac{1}{8}''$	$41\frac{1}{2}$ x $21\frac{3}{4}''$	

*Not for pole suspension.

Transformers have connection board by which they may be connected either for 230 or 460 volt service. Prices include oil, boxing, three primary fuse boxes, Cat. No. 51874. All transformers are provided with hanging hooks with exception of 50 Kw. which is too heavy for pole suspension.

TRANSFORMERS

Three to Two-Phase and Two to Three-Phase

Special

Information on Transformers of any size, voltage or frequency, to transform from three to two-phase or from two to three-phase will be furnished on application.

Satisfactory results may be obtained for motor work in many cases by using a standard Transformer of a 10 to 1 ratio, with a Standard Transformer of a 9 to 1 ratio to transform from two to three-phase or three to two-phase.

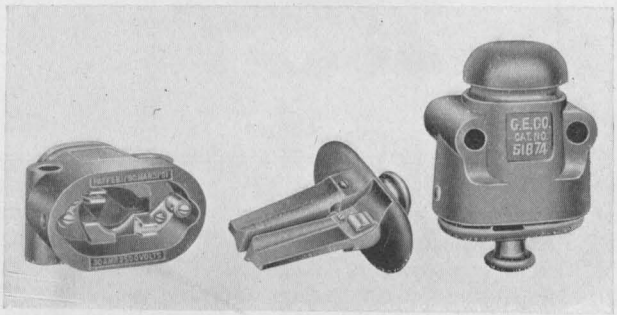
In transforming from three to two-phase by this method, with 2080 volt primary, a two-phase circuit of approximately 200 volts is obtained; while in transforming from two to three-phase, a three-phase circuit of approximately 230 volts is obtained. In either case, however, the phases are not exactly balanced.

General

Information and prices on Transformers of any capacity, voltage or frequency will be furnished on application.

TYPE H TRANSFORMERS—ACCESSORIES

Fuse Boxes



Cat. No. 51874

Cat. No.	Description	Max. Volts	Max. Amp.	List Price
8228	*Single-pole primary fuse block mounted in iron box; suitable for 3000 to 30000 watt transformers of standard voltages	3000	10	$3.50
5696	*Single-pole expulsion fuse block mounted in iron box; should be used with standard 40 and 50 Kw. transformers when operated on 1040 or 1200 volts	2500	100	11.00
51874	Single-pole insulator type porcelain fuse box	2500 3500	30 15	1.50
44304	Type T, Form D, expulsion fuse holder, mounted in weatherproof box	6600	15	7.50
45483	Type T, Form D, expulsion fuse holder, mounted in weatherproof box	15000	10	27.50

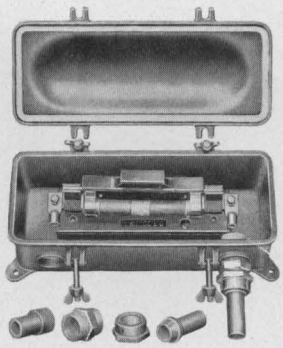
*For fuses see section of this catalogue devoted to fuses.

TYPE H TRANSFORMERS—ACCESSORIES

Fuses for Insulator Type Fuse Box No. 51874

Cat. No.	Capacity in Amps.	List Price	Cat. No.	Capacity in Amps.	List Price
23174	1	$0.03	23180	15	$0.03
23175	2	.03	23181	20	.03
23176	3	.03	23182	25	.03
23178	5	.03	23183	30	.03
23179	10	.03			

Subway Fuse Boxes



Cat. No. 27457

Cat. No.	Description	Max. Volts	Max. Amps.	List Price
27457	For 5 and 7.5 Kw. transformers	2500	30	$12.50
27458	For 10, 15, 20 Kw. transformers	2500	30	12.50
27459	For 25, 30, also 40 and 50 Kw. when operated on 2080 or 2400 volts	2500	30	12.50
29306	For 40 and 50 Kw. when operated on 1040 or 1200 volts	1200	50	12.50

Fuses for Subway Fuse Boxes

Kw. Capacity	Cat. No.			List Price
	Fuse Box	Fuses		
		1040 Volts	2080 Volts	
5.0	27457	27461	27460	$0.40
7.5	27457	27462	27461	.40
10.0	27458	27463	27461	.40
15.0	27458	27465	27462	.40
20.0	27458	27466	27463	.40
25.0	27459	27467	27464	.40
30.0	27459	27468	27465	.40
40.0	27459		27466	.40
40.0	29306	29307		.40
50.0	27459		27467	.40
50.0	29306	29308		.40

TYPE H TRANSFORMERS—ACCESSORIES

Suspension Hooks—Dimensions

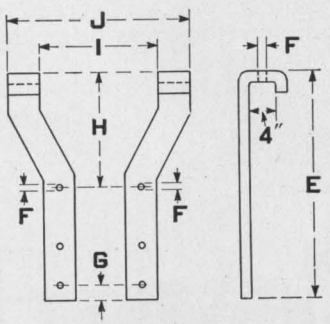


FIG. 3

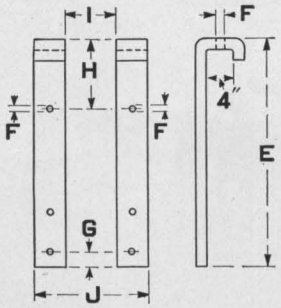


FIG. 4

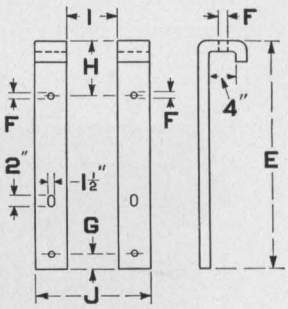


FIG. 5

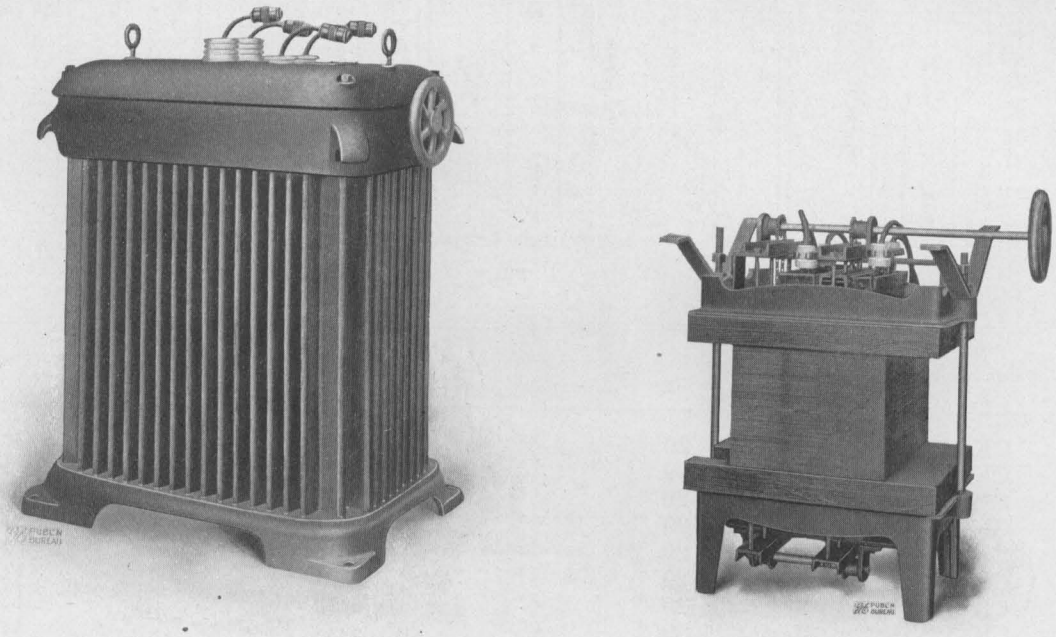
Box Symbol	Fig.	Suspension Hooks					
		E	F	G	H	I	J
CK 1	3	29 ″	½″	2½″	13 13/16″	8 ″	11 ″
CK 2	3	29 ″	½″	2½″	13⅛ ″	8¼″	11¼″
CK 4	3	29 ″	½″	2½″	12⅞ ″	9¼″	12¼″
CK 6	3	29 ″	⅝″	2½″	12⅛ ″	8 ″	11½″
CK 8	3	29 ″	⅝″	2½″	11⅜ ″	8¼″	11¾″
CK 9	3	29 ″	⅝″	2½″	11 ″	9 ″	11½″
CK 10	3	29 ″	⅝″	2½″	10⅞ ″	8½″	12 ″
CK 12	3	29 ″	⅝″	2⅜″	12 1/16″	7½″	11½″
CK 14	3	29 ″	⅝″	2⅜″	12 1/16″	8¼″	12¼″
CK 16	3	29 ″	¾″	2⅜″	10 13/16″	8 ″	12 ″
CK 19	4	30½″	¾″	2⅛″	8 ″	8 ″	12 ″
CK 21	3	29 ″	¾″	2⅜″	8¾ ″	8½″	12½″
CK 23	4	30½″	¾″	2⅛″	8 ″	8½″	12½″
CK 25	4	32⅝″	¾″	2⅛″	8 ″	8½″	12½″
CK 26	5	35¼″	¾″	2 ″	8¾ ″	8 ″	13 ″
CK 27	5	41 ″	¾″	2 ″	8¾ ″	9 ″	14 ″
CK 30	5	41 ″	¾″	2 ″	8¾ ″	9 ″	14 ″
CK 32	5	47 ″	¾″	2 ″	9¼ ″	9½″	14½″
CK 34	5	52 ″	¾″	2 ″	9½ ″	9½″	14½″
CK 36	5	55¾″	¾″	2 ″	9¾ ″	10½″	15½″
CK 40	5	55¾″	¾″	2 ″	9¾ ″	11½″	16½″
CK 77	5	35¼″	¾″	2 ″	8¾ ″	8¾″	13¾″
CK 80	5	35¼″	¾″	2 ″	8¾ ″	11½″	15½″
CK 42		No suspension hooks furnished					
CK 82	4	35¼″	¾″	2 ″	8¾ ″	9 ″	14 ″
CK 84	4	35¼″	¾″	2 ″	8¾ ″	9½″	14½″
CK 86	4	41 ″	¾″	2 ″	8¾ ″	9 ″	14 ″
CK 90		No suspension hooks furnished					

NOTE—To determine the proper hooks for any transformer, obtain from the table in which the transformer is listed the CK number, refer to the above tabulation, and note the corresponding hooks.

The CK number stamped on the hooks corresponds to the CK number stamped on the box with which they are used.

TYPE KMS FLUX SHUNT TESTING TRANSFORMERS

The General Electric Company has developed and placed on the market a transformer of radically new design for high potential testing. It is designated as the Type KMS Flux Shunt Transformer, and was specially designed to overcome the defects common to other types of testing transformers. By a simple arrangement of moving cores, the testing voltage may be regulated



EXTERIOR AND INTERIOR OF TYPE KMS TRANSFORMER

from approximately zero to the maximum rated voltage without the use of resistance boxes, water rheostats, or any cutting in or out of turns on either primary or secondary winding. It exerts a restraining influence upon the wave form of the test voltage, tending to deliver a smooth and desirable wave for testing purposes. The whole apparatus being self-contained can be mounted on trucks and conveniently carried from place to place for testing.

The following sizes are recommended:

Cat. No.	Type	Frequency	Kw.	Primary Voltage	Maximum Secondary Voltage	Approximate Shipping Weight Including Oil, Lbs.	List Price
42186	KMS	60	5	220	10000	2570	
42187	KMS	60	10	220	10000	2680	
42188	KMS	60	5	220	30000	2780	
42189	KMS	60	20	220	30000	3120	
42190	KMS	60	30	220	30000	3360	
42191	KMS	60	50	220	30000	3820	
42192	KMS	60	10	220	40000	3040	
42193	KMS	60	20	220	50000	3440	
42194	KMS	60	30	220	50000	3660	
42195	KMS	60	50	220	50000	4120	

Prices on application

The voltage given in the above list represents the maximum voltage at the different capacities, but each transformer can be easily wound for lower secondary and primary voltages.

GENERAL ELECTRIC COMPANY'S SERIES INCANDESCENT CONSTANT CURRENT STREET LIGHTING SYSTEM

The General Electric Company is prepared to furnish a complete street lighting system consisting of constant current transformers, panels, brackets, hoods, deflectors, sockets and lamps.



CONSTANT CURRENT TRANSFORMERS FOR SERIES INCANDESCENT LIGHTING, AIR COOLED

Frequency Limits, 60-133; Normal Frequency, 60 Cycles

Cat. No.	Kw.	Secondary Amps.	Primary Volts	Approx. Shipping Wt. Lbs.	List Price	Cat. No.	Kw.	Secondary Amps.	Primary Volts	Approx. Shipping Wt. Lbs.	List Price
27687	4.4	1.75	1100	625		27705	17.5	3.5	1100	1800	
27688	4.4	1.75	2200	625		27706	17.5	3.5	2200	1800	
27695	8.8	1.75	1100	900		27709	24.5	3.5	1100	2000	
27696	8.8	1.75	2200	900		27710	24.5	3.5	2200	2000	
27689	4.4	3	1100	625		27693	4.4	5.5	1100	625	
27690	4.4	3	2200	625		27694	4.4	5.5	2200	625	
27697	8.8	3	1100	900		27701	8.8	5.5	1100	900	
27698	8.8	3	2200	900		27702	8.8	5.5	2200	900	
27703	17.5	3	1100	1800		27707	17.5	5.5	1100	1800	
27704	17.5	3	2200	1800		27708	17.5	5.5	2200	1800	
27691	4.4	3.5	1100	625		27711	24.5	5.5	1100	2000	
27692	4.4	3.5	2200	625		27712	24.5	5.5	2200	2000	
27699	8.8	3.5	1100	900		27713	35	5.5	1100	2600	
27700	8.8	3.5	2200	900		27714	35	5.5	2200	2600	

Prices on application

Prices on application

SWITCHBOARD PANELS FOR CONSTANT CURRENT TRANSFORMERS

For Series Incandescent Lighting

For Controlling 1, 2 or 3 Constant Current Transformers with 1100/2200 Volt Primaries

Trans. Kw.	Secondary Amps.	Cat. No.			List Price		
		1 Trans. Panel	2 Trans. Panels	3 Trans. Panels	1 Trans. Panel	2 Trans. Panels	3 Trans. Panels
4.4	1.75	44619	44623	44627	Prices on application	Prices on application	Prices on application
4.4	3	44620	44624	44628			
4.4	3.5	44620	44624	44628			
4.4	5.5	44621	44625	44629			
8.8	1.75	44619	44423	44627			
8.8	3	44619	44623	44627			
8.8	3.5	44619	44623	44627			
8.8	5.5	44621	44625	44629			
17.5	3	44619	44623	44627			
17.5	3.5	44619	44623	44627			
17.5	5.5	44622	44626	44630			
24.5	3.5	*44631					
24.5	5.5	44625	44626	44630			
35	5.5	*44632					

*Panels for one transformer with two secondary circuits.

The catalogue number of the fuses should be specified when ordering panels. Four extra fuses are included in the above prices.

Fuses

Transformer Kw.	Cat. No.		List Price
	1100 Volts	2200 Volts	
4.4	51287	51286	Prices on application
8.8	51290	51287	
17.5	51293	51290	
24.5	51295	51292	
35	51296	51293	

Approximate Shipping Weights (Boxed) of Panels†

Panel for 1 Transformer	425 lbs.
Panel for 2 Transformers	75 lbs.
Panel for 3 Transformers	525 lbs.
Panel for 1 Two-Circuit Transformer	50 lbs.

†Weights do not include sub-base.

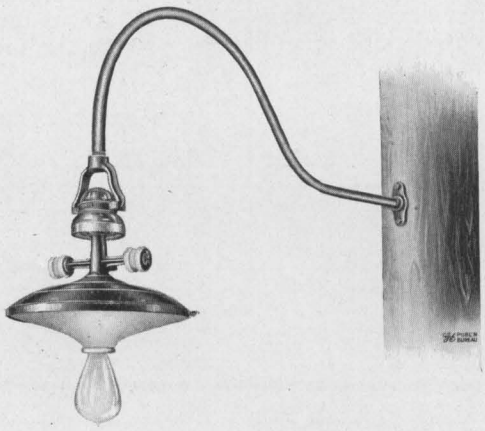
Sub-Base with Type IS 2 Wattmeters

Sub-bases with wattmeters are ordinarily furnished only for panels for one transformer.

Transformer Kw.	Amps.	Volts	Cat. No.	List Price	Amps.	Volts	Cat. No.	List Price
4.4	5	1100	44633	Prices on application.	5	2200	44639	Prices on application.
8.8	10	1100	44634		5	2200	44640	
17.5	25	1100	44635		10	2200	44641	
24.5	25	1100	44636		15	2200	44642	
24.5	25	1100	44637		15	2200	44643	
35	50	1100	44638		25	2200	44644	

STREET SERIES INCANDESCENT LIGHTING

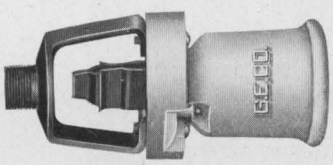
*Brackets



Cat. No.	Description.	List Price.
11459	†Lamp bracket complete with sheet metal hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 25708	$3.60
29185	†Lamp bracket complete with sheet metal hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 29170	3.60
36552	†Lamp bracket complete with copper hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 25708	5.50
36553	†Lamp bracket complete with copper hood and deflector and flat pole plate for use with series socket and receptacle, Cat. No. 29170	5.50
34928	Center span suspension fixture, complete with sheet metal hood and deflector for use with series socket and receptacle, Cat. No. 25708	3.40
34929	Center span suspension fixture complete with sheet metal hood and deflector for use with series socket and receptacle, Cat. No. 29170	3.40
36555	Center span suspension fixture complete with copper hood and deflector for use with series socket and receptacle, Cat. No. 25708	5.25
36556	Center span suspension fixture complete with copper hood and deflector, for use with series socket and receptacle, Cat. No. 29170	5.25
34930	Insulator holder for use with the above center span suspension fixtures	1.75
36549	Copper hood and deflector for use with brackets for Cat. No. 25708 series socket and receptacle	3.00
36550	Copper hood and deflector for use with brackets for Cat. No. 29170 series socket and receptacle	3.00

*Approximate shipping weight, complete bracket, 17 lbs.
†Does not include socket and receptacle or lamp.

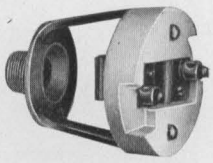
Sockets



Cat. No. 25708



Cat. No. 25711



Cat. No. 25712

25708	Porcelain series socket and receptacle, complete, with iron yoke, for large Edison screw base lamps	$2.00
25711	Porcelain series socket only	1.00
29170	Porcelain socket and receptacle, complete, with iron yoke, for standard Edison screw base lamps	1.50
25720	Porcelain series socket only	.50

Receptacles

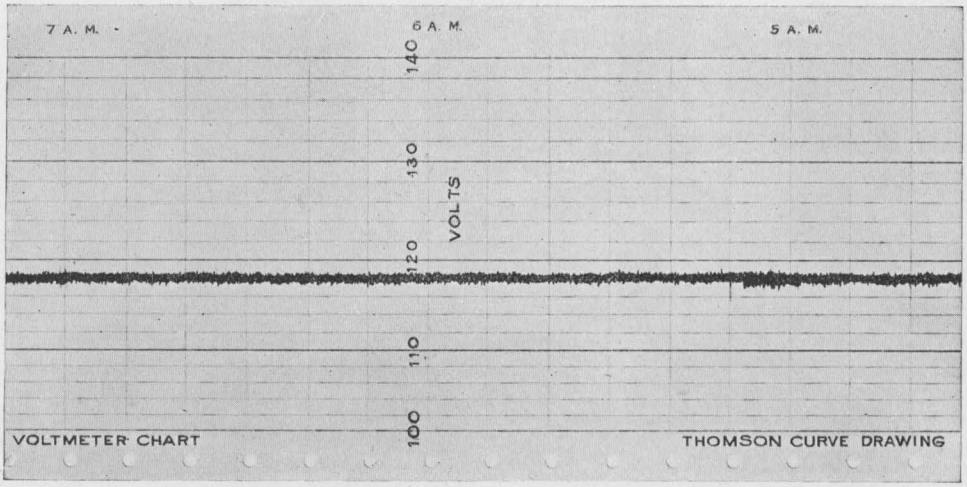
25712	Porcelain receptacle with clips and iron yoke, Cat. No. 25714	$1.00
25713	Porcelain receptacle with clips only	.65
29171	Porcelain receptacle with clips and iron yoke, Cat. No. 29172	1.00
25713	Porcelain receptacle with clips only	.65

Yokes

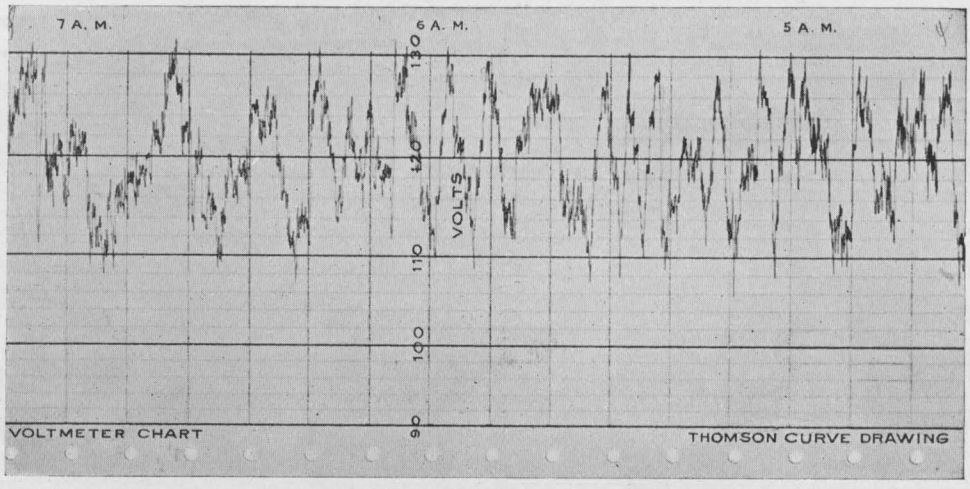
29172	Iron yoke with two screws, Cat. No. 10252 ($\frac{7}{8}$"–18 thread)	$0.35
25714	Iron yoke with two screws, Cat. No. 10252 ($\frac{7}{8}$"–18 thread)	.35

FEEDER REGULATORS

The General Electric Company builds four distinct lines of feeder regulators for the control of feeders of any capacity, frequency or voltage. The MR Regulator is an induction regulator, particularly well adapted for feeders of small capacity where the total kilowatt boost or buck varies from 1 Kw. to 6 Kw.



FEEDER SIDE OF REGULATOR



GENERATOR SIDE OF REGULATOR

Regulation Obtained by Type BR Automatic Regulator

Type CR Feeder Regulators have been widely used on circuits of from 50 to 500 Kw., where the total boost or buck amounts to from 5 to 50 Kw., where the current does not exceed 200 amperes and where hand control only is desired.

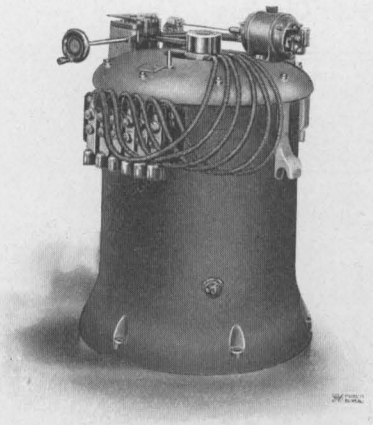
Type IR Regulators have been developed for the control of single or polyphase circuits of any standard voltage or capacity. They can be supplied for hand or motor, (remote) control as desired, and by the use of auxiliary devices they may be operated automatically to maintain the voltage of the circuits at a predetermined potential.

The BR type of automatic regulator has been especially designed for the automatic regulation of lighting feeders that have a rapidly fluctuating load, or where the source of the potential is unsteady, due to drags and surges of a long transmission line, the starting up of induction motors, or when a railway load is taken from the same system. (See above charts.)

For complete data on regulators see the bulletin on this subject.

FEEDER REGULATORS

Type IR



SIX-PHASE INDUCTION POTENTIAL REGULATOR WITH MOTOR CONTROL

These Regulators are built for any frequency, current capacity, and voltage for which it is desirable to build generators, and are designated by type letters as follows:

IRS—Single-phase. IRQ—Quarter or two-phase.
IRT—Three-phase. IRH—Six-phase.

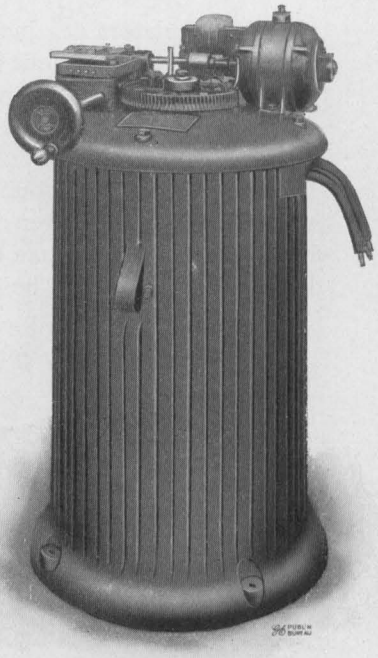
When motor control is desired, i. e., remote control, a small motor is furnished, as illustrated. Either a direct current or alternating current motor (polyphase preferred) may be furnished. The motor is arranged through suitable gearing to rotate the regulator armature, and is controlled by a double pole, single throw switch, mounted on the switchboard or in any other convenient place.

The automatically operated IR type of Regulator is always furnished with a polyphase alternating current motor on account of the high starting torque required, and also a contact making voltmeter, relay switch, potential transformer, and brake magnet for overcoming inertia of the motor when voltage is adjusted. If it is desired to automatically compensate for line drop a current transformer is supplied.

The following standard lines of Regulators have been developed and can be shipped shortly after receipt of order:

TYPE IRS REGULATORS FOR SINGLE-PHASE, 2200 TO 2400 VOLT, 60 CYCLE CIRCUITS

Feeder Capacity Amps.	Increase or decrease in line Voltage at 2200 Volts	K. W. Cap. of Reg.	†Method of Cooling	Dimensions in Inches		Approx. Ship'g Weight in Lbs.		List Price
				Dia. of Base	Height over all	Witho't Oil	With Oil	
50	5 %–110	5.5	Oil	19	44	880	990	Prices on application
	7.5%–165	8.25	Oil	19	44	880	990	
	10 %–220	11	Oil	19	52	1210	1320	
75	5 %–110	8.25	Oil	19	44	880	990	
	7.5%–165	12.5	Oil	19	52	1210	1320	
	10 %–220	16.5	Oil	25	47	1980	2200	
100	5 %–110	11	Oil	19	52	1210	1320	
	7.5%–165	16.5	Oil	25	47	1980	2200	
	10 %–220	22	Oil	25	53	2420	2750	
			O. & W.	25	47	1980	2200	
150	5 %–110	16.5	Oil	25	47	1980	2200	
	7.5%–165	25	Oil	25	53	2420	2750	
			O. & W.	25	47	1980	2200	
	10 %–220	33	Oil	35	67	3520	4180	
			O. & W.	25	53	1980	2200	
200	5 %–110	22	Oil	25	53	2420	2750	
			O. & W.	25	47	1980	2200	
	7.5%–165	33	Oil	35	67	3520	4180	
			O. & W.	25	53	1980	2200	
	10 %–220	44	Oil	35	67	3520	4180	
			O. & W.	35	67	3520	4180	



SINGLE-PHASE REGULATOR WITH MOTOR CONTROL

†O. & W.—Oil and water.

NOTE.—All of the above regulators are arranged so that by changing the internal connections of the primary they may be used on 1100 volt circuits. By changing the internal connections of the secondary a 5% regulator may be arranged for a 10% boost or lower on a 2200 volt circuit with half the current, and a 10% regulator so that a 5% boost or lower may be obtained with double the line current given in the above tabulation.

All regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage, with normal heating provided the kilowatt capacity of the regulator remains the same.

FEEDER REGULATORS

Type IRT Regulators for 2200 to 2400 Volt, 60 Cycle Circuits

Feeder Capacity Amps.	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Capacity of Reg.	**Method of Cooling	Dimensions in Inches		Approximate Shipping Weight in Lbs.		Prices
				Dia. of Base	Height Over All	Without Oil	With Oil	
25	7.5%–165	7.25	Oil	26	48	1540	1650	Prices on application
	10 %–220	9.5	Oil	26	54	1980	2200	
50	7.5%–165	14.5	Oil	35	54	2880	3080	
	10 %–220	19	Oil	35	54	2880	3080	
75	7.5%–165	21.5	Oil	35	54	2880	3300	
	10 %–220	28.5	Oil	35	60	3740	4290	
			O. & W.	35	60	3740	4290	
100	7.5%–165	28.5	Oil	35	66	3740	4400	
			O. & W.	35	60	3740	4290	
	10 %–220	38	Oil	35	66	4400	5060	
			O. & W.	35	66	3740	4400	
150	7.5%–165	43	Oil	35	66	4400	5060	
			O. & W.	35	66	4180	4850	
	10 %–220	57	O. & W.	35	66	4400	5060	
200	7.5%–165	57	O. & W.	35	66	4400	5060	
	10 %–220	76	O. & W.	35	66	4620	4850	

**O. & W.—Oil and water.

All Regulators designed as oil and water cooled can be furnished in the air blast type and conform to the dimensions given.

All Regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage with normal heating, provided the kilowatt capacity of the regulator remains the same.

Regulators can be built for any frequency, current capacity, or range in voltage for which it is practical to design generators, also for a higher or lower line potential than 2200 volts. Those for a lower frequency than 60 cycles, or for a higher voltage than 2400 will have greater over-all dimensions and cannot be furnished self-cooled for as large a kilowatt capacity as those listed.

Type IRH Air Blast Six-Phase Regulators

For 25 Cycle Rotary Converters

Range in voltage, 240 to 280 D. C. Transformers diametrically connected and wound for a secondary voltage of 192.

Kw. Capacity of Rotary Converter	Kw. Capacity of Regulator	Dimensions in Inches		Approximate Shipping Wt. in Lbs.	Prices	Kw. Capacity of Rotary Converter	Kw. Capacity of Regulator	Dimensions in Inches		Approximate Shipping Wt. in Lbs.	Prices
		A	B					Dia. of Base	Height Over All		
300	30	35	50	4400	Prices on application	1000	100	54	64	9350	Prices on application
500	50	40	52	5500		1500	150	54	80	12100	
750	75	40	60	6600		2000	200	59	86	15400	

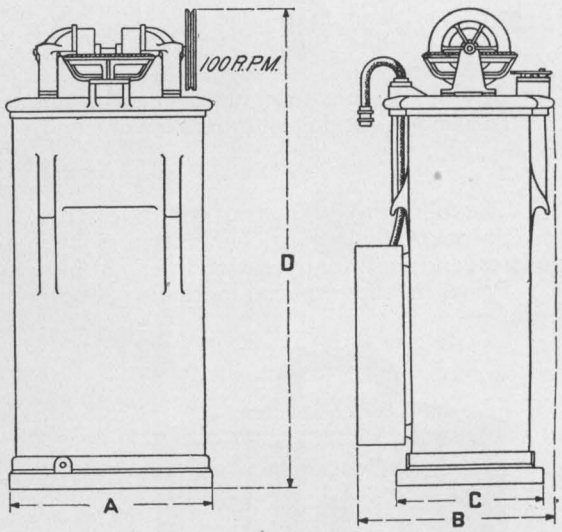
*When an automatic IRH regulator is used for governing the voltage on a rotary converter having a lighting load, the contact-making volt meter is placed across the D. C. circuit. For line drop compensation, instead of the current transformer previously described, a shunt is used to excite the series coil of the contact-making volt meter.

Regulators for rotary converters are usually furnished in the air blast type. They can, however, be made oil and water cooled, and the 30 kilowatt size, oil immersed, self-cooled.

FEEDER REGULATORS

Type BR





AUTOMATIC OPERATION FOR SINGLE PHASE 2200 TO 2400 V. 60 CYCLE CIRCUITS

Feeder Capacity in Amps.	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Capacity of Regulator	Dimensions in Inches				Approx. Ship'g Wgt. in Lbs.		List Price
			A	B	C	D	Without Oil	With Oil	
50	10% –220	11	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2200	2950	Prices on application
75	$7\frac{1}{2}$%–165	$12\frac{1}{2}$	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2200	2950	
75	10 %–220	$16\frac{1}{2}$	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2400	3150	
100	5 %–110	11	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2200	2950	
100	$7\frac{1}{2}$%–165	$16\frac{1}{2}$	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2200	3150	
100	10 %–220	22	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2650	3350	
150	$7\frac{1}{2}$%–165	25	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2600	3350	
150	5 %–110	$16\frac{1}{2}$	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2400	3150	
200	5 %–110	22	$25\frac{3}{4}$	$24\frac{3}{4}$	$18\frac{3}{4}$	$62\frac{1}{8}$	2600	3350	

The pulley on these regulators is 12 inches in diameter, has a grooved face and should revolve at 100 R.P.M.

Motor not included in above list as several regulators may be run from a single motor. The size of the motor is determined by the number of regulators to be operated—allowing $\frac{1}{8}$ H.P. per regulator.

The line shafting for running regulators is usually furnished by the customer as he can do it more cheaply and with less trouble than by referring drawings, etc., to the factory.

All regulators that are wound for 2200 volts can be operated on circuits that vary 10% either way from this voltage, with normal heating, provided the Kw. capacity of the regulator remains as given in the tables.

For automatic line drop compensation a current transformer must be added to the equipment.

FEEDER REGULATORS

Type CR

FOR 2200 TO 2400 VOLT, 60 CYCLE CIRCUITS

Feeder Capacity in Amps.	Increase or Decrease in Line Voltage at 2200 Volts	Kw. Capacity of Regulator	Method of Cooling	Approximate Shipping Weight in Lbs.	Cat. No.	Reference No. in Dimension Table	List Price
25	10%–220	5.5	Air	715	31749	1	Prices on application
50	5%–110	5.5	Air	715	31750	1	
	10%–220	11.0	Air	1130	31751	3	
75	5%–110	8.25	Air	830	31752	2	
	10%–220	16.5	Air	1130	31753	3	
100	5%–110	11	Air	1130	31754	3	
	10%–220	22	Air	1400	31755	4	
150	5%–110	16.5	Air	1130	31756	3	
	10%–220	33	Air	1500	44600	5	
200	5%–110	22	Air	1400	31757	4	
	10%–220	44	Air	1800	44601	6	

Any of the above Regulators can be connected for a 1100 volt primary.
The above catalog numbers cover hand control Regulators.

Special Methods of Operation

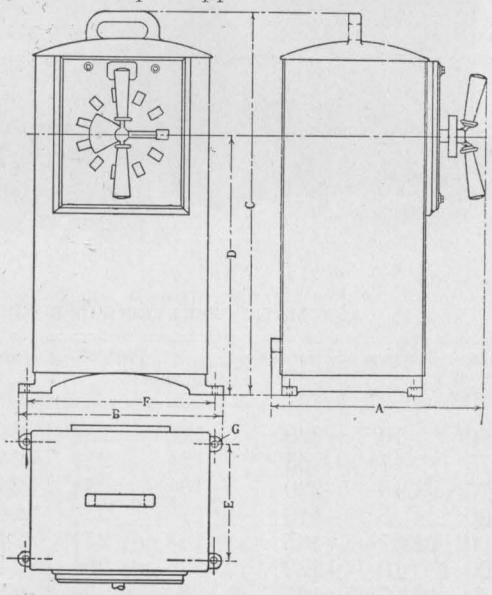
The following methods of control can also be furnished:

Sprocket and chain control from switchboard; bevel gear from switchboard; hand wheel, pedestal and shaft for operation from galleries; motor control to be actuated from the switchboard.

Prices on these special methods of control may be had upon application.



CR REGULATOR



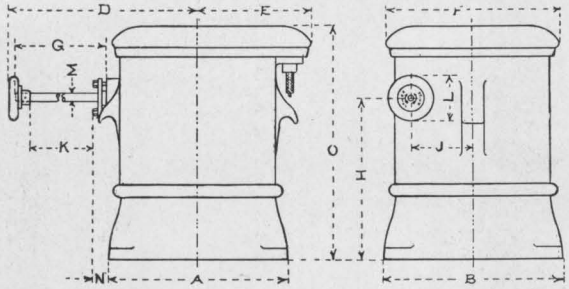
DIMENSIONS OF CR REGULATORS

Ref. No.	A	B	C	D	E	F	G
1	$26\frac{9}{16}$	$21\frac{1}{4}$	$29\frac{1}{4}$	$15\frac{1}{2}$	13	$19\frac{1}{4}$	$\frac{1}{2}$
2	$28\frac{9}{16}$	24	34	$19\frac{1}{4}$	15	$22\frac{1}{4}$	$\frac{1}{2}$
3	$28\frac{9}{16}$	24	$40\frac{1}{2}$	$25\frac{3}{4}$	15	$22\frac{1}{4}$	$\frac{1}{2}$
4	$34\frac{9}{16}$	$26\frac{1}{2}$	$45\frac{1}{4}$	$30\frac{1}{2}$	21	$24\frac{1}{2}$	$\frac{1}{2}$
5	$36\frac{9}{16}$	$28\frac{1}{2}$	$54\frac{3}{8}$	$39\frac{5}{8}$	23	$26\frac{1}{2}$	$\frac{5}{8}$
6	$37\frac{13}{16}$	$35\frac{1}{2}$	$68\frac{3}{8}$	52	$24\frac{1}{4}$	$33\frac{1}{2}$	$\frac{3}{4}$

NOTE—On regulators equipped for sprocket wheel control. the dimension A is less than shown in the above table.

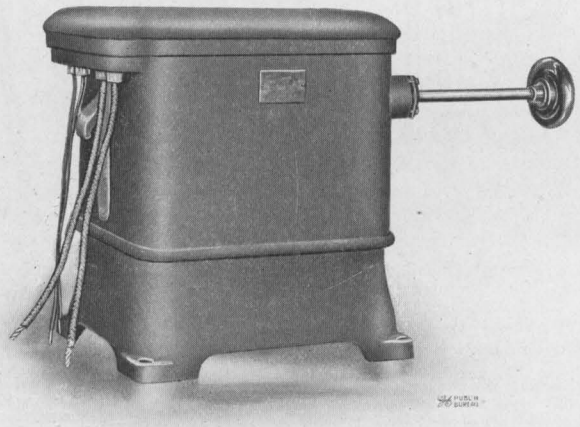
FEEDER REGULATORS

Dimensions of MR Induction Regulators



Capacity	A	B	C	D	E	F	G	H	J	K	L	M	N
1 Kw.	14 ″	14 ″	$19\frac{3}{4}$″	$16\frac{3}{4}$″	$7\frac{1}{8}$″	$14\frac{1}{4}$″	$8\frac{3}{4}$″	$14\frac{1}{2}$″	$5\frac{5}{8}$″	$7\frac{3}{4}$″	4	$\frac{5}{8}$	$\frac{1}{8}$″
3 Kw.	16 ″	$16\frac{1}{4}$″	24 ″	$19\frac{1}{4}$″	$10\frac{3}{16}$″	$15\frac{3}{8}$″	$10\frac{1}{8}$″	$17\frac{5}{8}$″	$5\frac{5}{8}$″	8 ″	4	$\frac{5}{8}$	$1\frac{3}{8}$″
6 Kw.	$23\frac{1}{2}$″	$20\frac{3}{4}$″	$27\frac{1}{4}$″	$24\frac{1}{2}$″	$14\frac{7}{8}$″	$29\frac{3}{4}$″	$11\frac{1}{16}$″	$20\frac{1}{2}$″	$7\frac{1}{2}$″	$8\frac{1}{2}$″	6	$\frac{7}{8}$	$1\frac{1}{2}$″

Type MR Induction



MR REGULATOR

Cat. No. 60 Cycles	Cat. No. 125 Cycles	Kw.	Primary Voltage	Volts Increase or Decrease	Line Current Amperes	Weight	List Price
31758	31773	1	1100	50	20	300	Prices on application
31759	31774	1	1100	100	10	300	
31760	31775	3	1100	50	60	520	
31761	31776	3	1100	100	30	520	
31762	31777	3	1100	150	20	520	
31763	31778	3	2200	100	30	520	
31764	31779	3	2200	150	20	520	
31765	31780	3	2200	200	15	520	
31766	31781	6	1100	50	120	900	
31767	31782	6	1100	75	80	900	
31768	31783	6	1100	100	60	900	
31769	31784	6	1100	150	40	900	
31770	31785	6	2200	100	60	900	
31771	31786	6	2200	150	40	900	
31772	31787	6	2200	200	30	900	

THE MERCURY ARC RECTIFIER

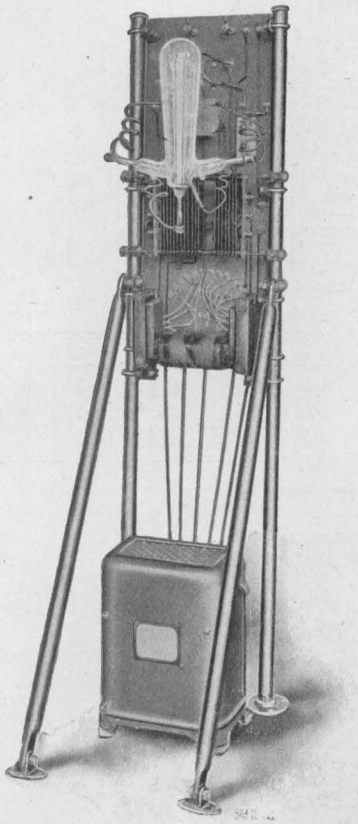


Fig. 1—Front View

20 AMP. OR 30 AMP. OUTFIT

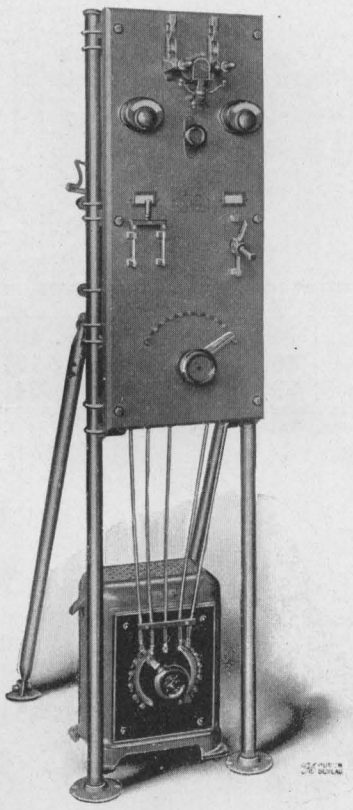


Fig. 2—Rear View

The Mercury Arc Rectifier is a device for simply, efficiently and economically changing alternating current to direct current.

The rectifier is built in four standard sizes, 10, 20, 30 and 40 amperes, and for any direct current voltage up to 175 and any alternating frequency. This device has been very extensively and successfully used for charging electric automobiles and central energy telephone batteries where the alternating current only was available. It has, however, been applied with equal success to many other classes of work.

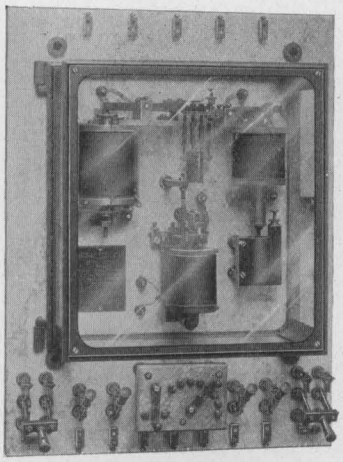
The outfit consists of three essential parts, panel (with complete equipment), rectifier tube, and compensating reactances. The standard panel is shown above, but special outfits for all classes of work, such as automobile charging garage equipments and telephone battery charging panels can be supplied.

Cat. No. Complete Outfit	D.C. Amperes Capacity	D.C. Volts	A.C. Volts	Cat. No. Rectifier Tube	Volt Meter	Ammeter	Cells Lead Battery	Freq.	List Price
41223	10	15– 45	110	40948	75	30	5–18	60	Prices on application
41227	10	30– 45 45– 75	110 220	40949	75	30	15–18 18–24	60	
41231	10	45–115	220	40949	120	30	18–44	60	
41235	10	90–175	330	40950	175	30	44–68	60	
41224	20	15– 45	110	40951	75	30	5–18	60	
41228	20	30– 45 45– 75	110 220	40952	75	30	15–18 18–24	60	
41232	20	45–115	220	40952	120	30	18–44	60	
41236	20	90–175	330	40953	175	30	44–68	60	
41225	30	15– 45	110	40954	75	60	5–18	60	
41229	30	30– 45 45– 75	110 220	40955	75	60	15–18 18–24	60	
41233	30	45–115	220	40955	120	60	18–44	60	
41237	30	90–175	330	40956	175	60	44–68	60	
41226	40	15– 45	110	40957	75	60	5–18	60	
41230	40	30– 45 45– 75	110 220	40958	75	60	15–18 18–24	60	
41234	40	45–115	220	40958	120	60	18–44	60	
41238	40	90–175	330	40959	175	60	44–68	60	

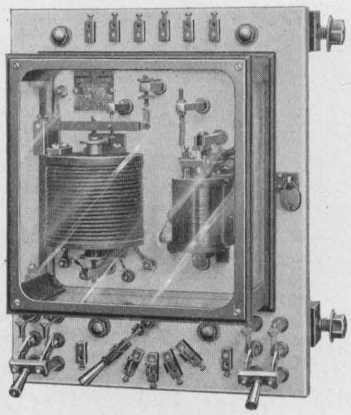
NOTE.—It will be noted that the above outfits are rated at 60 cycles. They can, however, be used on any frequency from 25 to 140 cycles, although the voltage characteristics will change somewhat. For instance, a standard outfit operating on 125 cycles will give a maximum D. C voltage about 15 per cent lower than when operating at 60 cycles.

TIRRILL VOLTAGE REGULATORS

Types TA and TD



TYPE TA REGULATOR



TYPE TD REGULATOR

Types TA and TD regulators were designed to regulate automatically the voltage of alternating current and direct current generators, respectively. For a description of these regulators reference should be made to the bulletin on this subject.

For Alternating Current Generators

Cat. No.	Type	Form	Approximate Shipping Weight, Lbs.	Cat. No.	Type	Form	Approximate Shipping Weight, Lbs.
46288	TA 60	H	150	43248	TA 125	F– 6	250
46289	TA 90	H	150	43249	TA 125	F– 7	250
46290	TA 125	H	150	43250	TA 125	F– 8	250
46291	TA 250	H	150	43251	TA 125	F– 9	250
43244	TA 125	F–2	250	43252	TA 125	F–10	250
43245	TA 125	F–3	250	43253	TA 125	F–11	250
43246	TA 125	F–4	250	43254	TA 125	F–12	250
43247	TA 125	F–5	250				

For Direct Current Generators

Cat. No.	Type	Form	Approx. Shipping Weight, Lbs.
43193	TD–125	G	95
43194	TD–250	G	95
43195	TD–550	G	95

27298 Condenser section (including Tripods) for either TA or TD Regulators.
27299 Set of Iron Brackets for Type TA Regulators, including two halves with bolts and nuts.
29014 Set of Iron Brackets for Type TD Regulators, including two halves with bolts and nuts.

TIRRILL VOLTAGE REGULATORS, TYPES TA AND TD

Potential Transformers for Use with TA Regulators

TYPE P—25 TO 60 CYCLES

Cat. No.	Watts	Volts		Weight in Lbs.	List Price
		Primary	Secondary		
31793	200	220	110	110	Prices on application
33578	200	330/363/440	110	110	
27607	200	550	110	110	
27608	200	660	110	110	
34158	200	1100/2200	110/122	110	
27611	200	3300	110	110	
38555	200	4400	110	298	
27612	200	*5500	110	298	
27613	200	*6600	110	298	
46705	200	*8800	110	298	
27614	200	*11000	110	298	
27615	200	*13200	110	298	
33580	200	*22000	110	565	
27876	200	*26400	110	565	

*Oil Insulated.

Current Transformers for Use with TA Regulators

FOR CIRCUITS NOT EXCEEDING 7500 VOLTS

Cycles	Ampere Rating of Circuit	Cat. No.	Approximate Shipping Wt. in Lbs.	List Price	Cycles	Ampere Rating of Circuit	Cat. No.	Approximate Shipping Wt. in Lbs.	List Price
25/125	5	41251	40	Prices on application	25/125	300	41262	40	Prices on application
25/125	10	41252	40		25/125	400	41263	40	
25/125	15	41253	40		25/125	600	41264	45	
25/125	20	41254	40		25/125	800	41299	45	
25/125	30	41255	40		25/125	1000	41300	45	
25/125	40	41256	40		25/125	1500	41301	45	
25/125	60	41257	40		25/125	2000	41302	45	
25/125	80	41258	40		25/125	3000	41303	45	
25/125	100	41259	40		25/125	4000	41304	45	
25/125	150	41260	40		25/125	6000	41305	45	
25/125	200	41261	40						

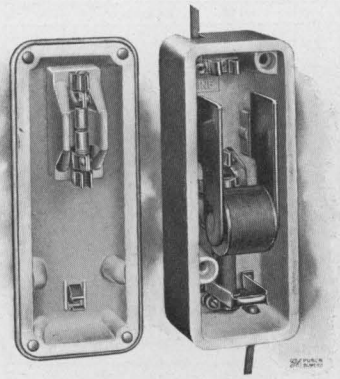
*Compounding Shunts Complete for Type TD Voltage Regulators

Cat. No	Ampere	Cat. No.	Ampere
46018	100	46023	600
46019	200	46024	700
46020	300	46025	800
46021	400	46026	900
46022	500	46027	1000

*These shunts are for use with all Type TD regulators with the exception of Forms A, C4, C5, C6 and H.

LIGHTNING ARRESTERS FOR DIRECT CURRENT CIRCUITS

Type MD 2



Cat. No. 33623





Cat. No. 33625

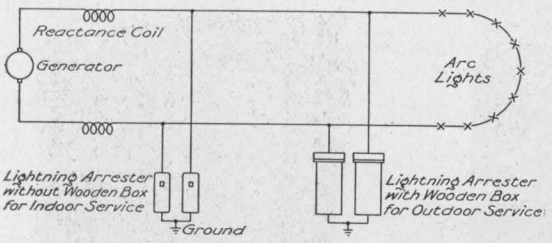
The standard lightning arrester for direct current circuits is the Type MD 2, which is made for series arc circuits of from 2000 to 6000 volts; for railway and power circuits of from 250 to 850 volts; for lighting and power circuits of from 60 to 375 volts.

Cat. No.	Description	Approx Shipping Weight in Lbs.	List Price
	For 60 *to* 200 *Volts*		Prices on application
33619	For station use	17	
33620	In wooden box for line use	35	
33867	Extra resistance		
	For 125 *to* 375 *Volts*		
33621	For station use	17	
33622	In wooden box for line use	35	
33868	Extra resistance		
	For 250 *to* 850 *Volts*		
33623	For station use	17	
33625	In wooden box for line use	35	
33869	Extra resistance		
	For 2000 *to* 6000 *Volts*		
33626	For station use	17	
33627	In wooden box for line use	35	
33869	Extra resistance		

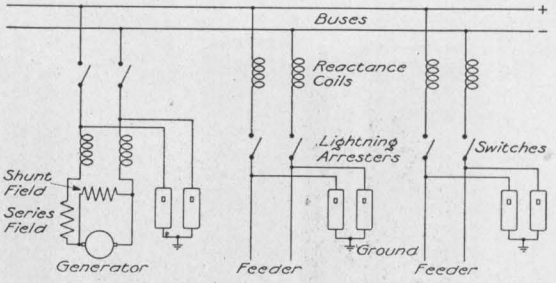
NOTE—The Type AA arresters for D.C. series arc circuits of 75 and 150 lamps, Type A arresters for D.C. series arc circuits of 75 lamps or less, and Type B arresters for D.C. incandescent lamp circuits of 300 volts or less, can be furnished if it is desired to preserve the symmetry of the arrangement in any installation where they have already been used, although they will not be carried in stock hereafter.

LIGHTNING ARRESTERS FOR DIRECT CURRENT CIRCUITS

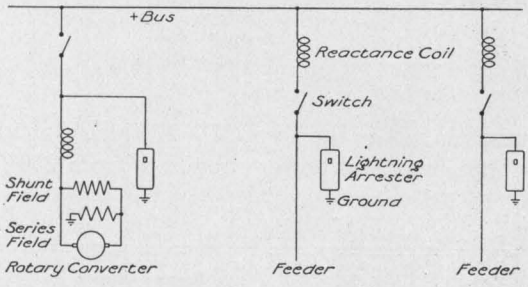
Type MD 2



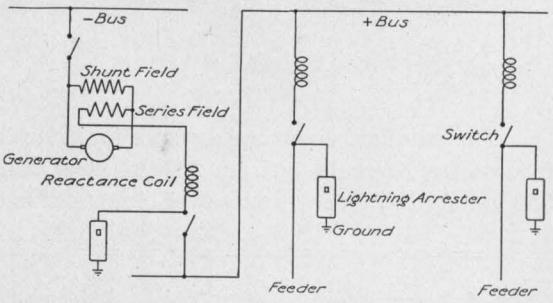
CONNECTIONS FOR D. C. SERIES ARC LIGHTING CIRCUIT
UP TO 6000 VOLTS



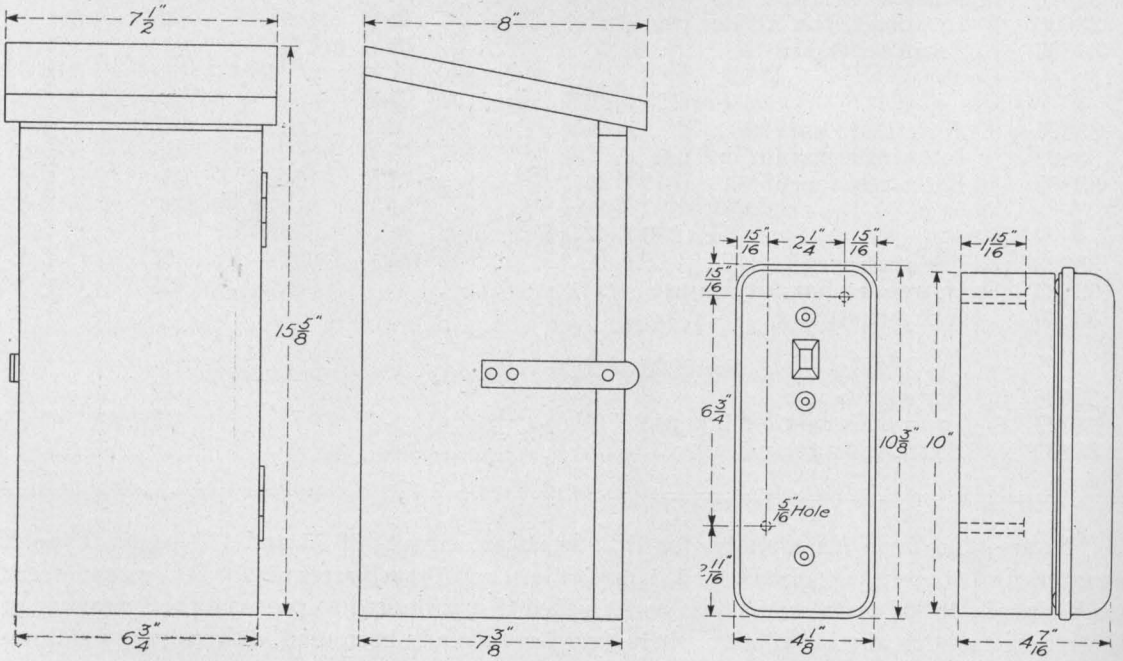
CONNECTIONS FOR D. C. UNGROUNDED CIRCUIT
UP TO 850 VOLTS



CONNECTIONS FOR D. C. GROUNDED RETURN CIRCUIT
UP TO 850 VOLTS
MACHINE EQUALIZING ON NEGATIVE SIDE



CONNECTIONS FOR D. C. GROUNDED RETURN CIRCUIT
UP TO 850 VOLTS
MACHINE EQUALIZING ON POSITIVE SIDE



DIMENSIONS OF TYPE M FORM D 2 LIGHTNING ARRESTER

GE ALTERNATING CURRENT LIGHTNING ARRESTERS

3000 Volts and Under

Cat. No.	Description	Approx. Shipping Weight, Lbs.	List Price
3413	300 V. S. P. in iron box (for secondaries of transformers or for individual series arc lamps)	4½	Prices on application
38126	300 V. D. P. in iron box (for transformer secondaries)	5½	
38127	300 V. T. P. in iron box	8	
41447	1000 & 2000 V. S. P. in iron box	20	
42364	1000 & 2000 V. D. P. in iron box	30	
40701	*3000 V. S. P. in iron box	30	
41450	1000 & 2000 V. S. P. station	6	
41505	1000 & 2000 V. D. P. station	12	
40700	*3000 V. S. P. station	12	

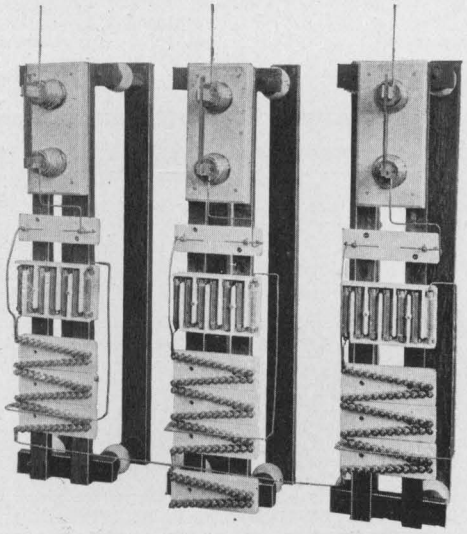
If line arresters above 3000 volts are desired, information will be furnished on application.

NOTE—Arresters in wood box are for line use.

*Cat. Nos. 40701 and 40700 are connected between line and ground as single pole arresters with air gaps in series. Two arresters, Cat. Nos. 42364 or 41505, should be used on three-phase circuits.

Cat. Nos. 41447, 42364, 41450 and 41505 are furnished with strips so that one series gap can be short circuited in each pole when these arresters are used on 1000 volt circuits. The reason for this arrangement is that many plants which are being operated at 1000 volts may be operated at 2000 volts later, where the same arresters may be used.

Station Multiplex Lightning Arresters



13200 VOLT LIGHTNING ARRESTER FOR Y CONNECTED NEUTRAL GROUNDED SYSTEM

The multiplex arrester not only protects against lightning, but acts equally well as a safeguard to discharge any excessive voltage accumulation, strains due to surgings, the sudden opening or closing of switches, resonance or capacity effects, and static charges.

WITH SINGLE BLADE DISCONNECTING SWITCHES FOR THREE-PHASE CIRCUITS DELTA OR Y CONNECTED WITHOUT GROUNDED NEUTRAL

Cat. No.	Voltage.	Approx. Shipping Weight, Lbs.	List Price.	Cat. No.	Voltage.	Approx. Shipping Weight, Lbs.	List Price.
41451	5000	380	Prices on application	41458	30000	1156	Prices on application
41453	10000	456		41459	35000	1262	
41454	12500	486		41460	40000	2712	
41455	15000	542		41461	45000	2835	
41456	20000	961		41462	50000	2959	
41457	25000	1086		41463	60000	3169	

GE ALTERNATING CURRENT LIGHTNING ARRESTERS

Station Multiplex Lightning Arresters

WITH DOUBLE BLADE DISCONNECTING SWITCHES FOR THREE-PHASE CIRCUITS, DELTA OR Y CONNECTED, WITHOUT THE GROUNDED NEUTRAL

Cat. No.	Volt-age	Approx. Ship'g Weight, Lbs.	Prices on application	Cat. No.	Volt-age	Approx. Ship'g Weight, Lbs.	Prices on application	Cat. No.	Volt-age	Approx. Ship'g Weight, Lbs.	Prices on application	Cat. No.	Volt-age	Approx. Ship'g Weight, Lbs.	Prices on application
41464	5000	565		41467	12500	734		41469	20000	1356		41471	30000	1539	
41466	10000	729		41468	15000	789		41470	25000	1436		41472	35000	1585	

WITH SINGLE BLADE DISCONNECTING SWITCHES FOR THREE-PHASE Y CONNECTED GROUNDED NEUTRAL CIRCUITS

41473	5000	363	Prices on application	41477	15000	482	Prices on application	41480	30000	986	Prices on application	41483	45000	2366	Prices on application
41475	10000	436		41478	20000	842		41481	35000	1031		41484	50000	2543	
41476	12500	447		41479	25000	896		41482	40000	2282		41485	60000	2774	

WITH DOUBLE BLADE DISCONNECTING SWITCHES FOR THREE-PHASE Y CONNECTED GROUNDED NEUTRAL CIRCUITS

41486	5000	547	Pr's on ap'l-tion	41489	12500	705	Pr's on ap'l-tion	41491	20000	1209	Pr's on ap'l-tion	41493	30000	1382	Pr's on ap'l-tion
41488	10000	694		41490	15000	739		41492	25000	1306		41494	35000	1427	

Information on lightning arresters for single-phase or two-phase circuits of 5000 volts and higher will be furnished on application.

EXTRA PARTS FOR USE ON ALTERNATING CURRENT LIGHTNING ARRESTERS

Cat. No.	Description	Approx. Ship. Weight, Lbs.	Cat. No.	Description	Approx. Ship. Weight, Lbs.
30733	Resistance rod used in all A.C. Ltg. Arresters		41507	7 resistance base including resistance rods	16
41506	V units	11	41509	Cable terminal for V unit	
41508	2 resistance base including resistance rods	6	41510	Adjustable spark gap	5½

For Use on Secondaries of Constant Current Transformers and Reactive Coils

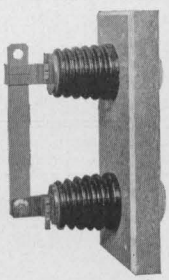
STATION ARRESTERS

Cat. No.	Rating of Trans.	No. required	Approx. Ship. Weight, Lbs.	Prices on application	Cat. No.	Rating of Trans.	No. required	Approx. Ship. Weight, Lbs.	Prices on application
41505	25 Light	1	12		41498	75 Light, multi-circuit	34	2	
41495	35 Light	1	32		41497	100 Light, single circuit	105	1	
	50 Light, single circuit	1			41499	100 Light, multi-circuit	50	2	
40700	50 Light, multi-circuit	2	12		25400	Porcelain barriers for use with above arresters		1¾	
41496	75 Light, single circuit	1	78						

LINE ARRESTERS

Cat. No.	Description	Approx. Shipping Weight, Lbs	Prices on application	Cat. No.	Description	Approx. Shipping Weight, Lbs.	Prices on application
42364	41505 in iron box	30		41502	41497 in wooden box	78	
40701	40700 in iron box	30		41503	41498 in wooden box	46	
41500	41495 in wooden box	45		41504	41499 in wooden box	94	
41501	41496 in wooden box	71					

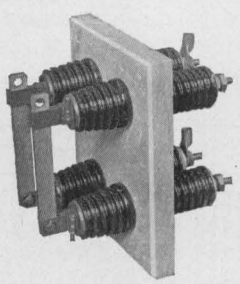
SINGLE BLADE DISCONNECTING SWITCHES FOR USE WITH LIGHTNING ARRESTERS



Cat. No.	Max. Voltage Limits	Amps.	Approx. Ship. W'gt. Lbs.	Prices on application
11462	6600		40	
11463	16000		46½	
11464	35000		86	
34285	60000	100	137	
DOUBLE BLADE DISCONNECTING SWITCHES				
32283	6600	300	72	
32284	16000	300	103	
32285	35000	300	182	

HOOKS AND HANDLES

Cat. No.	Length in Feet	Max. Voltage for Which Handle Should be Used	Approx. Ship. W'gt, Lbs.	Prices on application
36082	3	15000	5	
36084	5	35000	8	
34339	8	60000	12	
36085	10		15	



NOTE:—Hooks and handles are not included with switches or lightning arresters unless specially ordered. The voltage rating specifies the maximum voltage for which any handle should be used. Longer handles may be used where conditions warrant.

CABLE PROTECTION

In laying out circuits, it is frequently necessary and desirable to dip underground when passing through cities, or under rivers, etc., and in these cases some form of metal covered cable is generally used. It has been noticed from numerous installations that high potentials invariably occur where these underground cables are used, due to resonance effects, and these high potentials are often of sufficient value to break down the cables themselves, or the insulation of apparatus installed on the lines. The strains very often produce pinhole punctures in the insulation of underground cables and thus relieve themselves temporarily; they may therefore remain unnoticed for a number of months until the insulation becomes very much impaired, ultimately resulting in a complete breakdown.

Whenever lines contain both inductance and capacity in noticeable quantities, high voltages, which endanger the insulation of the whole system and which it is impossible to detect on ordinary switchboard instruments, may exist. We therefore frequently find such abnormal voltages in circuits containing a combination of underground and overhead circuits, and in long-distance transmission lines. For the protection of such installations, the following Static Dischargers have been developed.

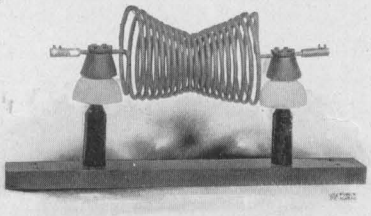
STATIC DISCHARGERS FOR ALTERNATING CURRENT CIRCUITS

Cat. No.	Voltage	Approx. Shipping Weight, Lbs.	List Price	Cat. No	Voltage	Approx. Shipping Weight, Lbs.	List Price
30953	5000	30	Prices on application	30958	20000	96	Prices on application
30954	7500	42		30959	25000	116	
30955	10000	49		42623	30000	172	
30956	12500	53		42624	35000	208	
30957	15000	59		33583	Extra Resistance	for use in Static Discharger	

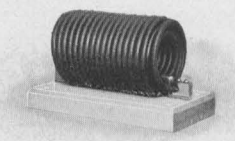
USE OF CHOKE COILS

Although considerable doubt has existed as to the advisability of installing reactive coils in connection with lightning dischargers, it is believed by many prominent engineers that reactive coils are of considerable value in connection with the proper protection of apparatus.

Without a doubt, the frequency of lightning disturbances varies greatly in different cases, although, as a whole, it is probably high. Inasmuch as the action of the reactive coils is not dependent on the voltage or frequency of the line, it is inadvisable to design a large number of coils having different reactances, and it is evident that a coil can be designed with ample current carrying capacity, which may be used on a number of voltages, provided it has sufficient insulation. The General Electric coils have been designed in this manner.



25 Ampere Coil



200 Ampere Coil

CHOKE COILS FOR USE WITH ALTERNATING CURRENT LIGHTNING ARRESTERS

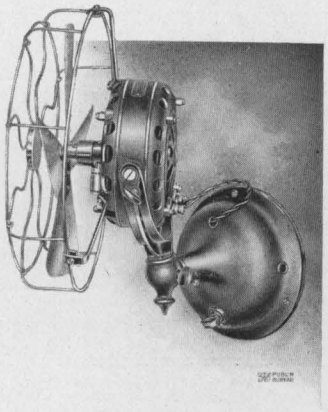
Cat. No.	Voltage	Amperes	Approx. Shipping Weight, Lbs.	List Price
25401	5000	0 to 25	12½	Prices on application
3416	5000	25 to 100	40	
36882	5000	100 to 200	35½	
32240	5000 to 35000	0 to 200	60	
34332	35000 to 60000	0 to 200	345	

FAN MOTORS

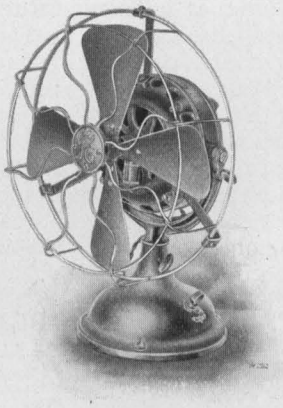
Alternating Current Swivel and Trunnion Frame Desk and Wall Bracket Motors

Twelve-Inch Fans, 60 and 125/140 Cycles

Specifications



WALL BRACKET MOTOR



DESK MOTOR

SPEED REGULATOR.—Six-point regulating coil and switch.

SPEEDS.—Full speed, 60 cycles, 1500 R.P.M.; 125 cycles, 1470 R.P.M.

VOLTAGES.—For 100 volts, 115 volts, 190 volts, and 220 volts.

FINISH.—Frame, base, and motor trimmings finished in black enamel; guard finished in dipped brass.

BLADES.—Four blades, lacquered brass.

FRAME.—Ventilated.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of desk motor complete, 21 pounds; boxed for shipment, 40 pounds. Weight of bracket motor complete, 22 pounds; boxed for shipment, 41 pounds.

SPECIAL MOTORS.—Motors for special frequencies and voltages built to order. Prices will be named on receipt of specifications.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.50.**

RANGE OF OPERATION.—Motors can be operated satisfactorily on circuits, the voltage or frequency of which may vary 5% above or below rated voltage or frequency, or when the sum of the voltage and frequency does not exceed 5%.

ADJUSTMENT.—Adjustable both horizontally and vertically.

SIMILARITY.—Desk and wall bracket type of motors are identical, with the exception that the wall bracket has, in addition to the standard parts of the desk type, an angular adapter.

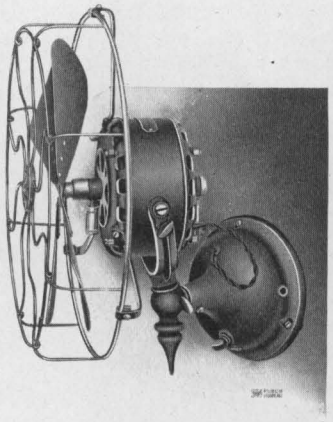
Cat. No.		Cycles	Voltage	List Price	
Desk	Bracket			Desk	Bracket
34017	36328	60	100/115	**$29.00**	**$29.00**
34018	36329	60	190/220	**31.00**	**31.00**
34019	36330	125/140	100/115	**29.00**	**29.00**
34020	36331	125/140	190/220	**31.00**	**31.00**

FAN MOTORS

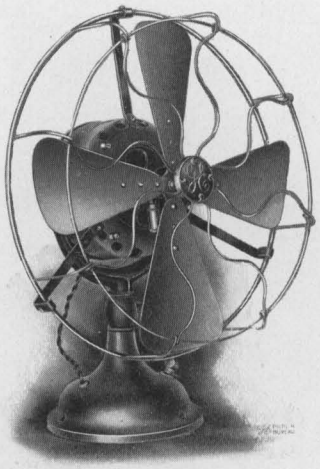
Alternating Current Swivel and Trunnion Frame Desk and Wall Bracket Motors

Sixteen-Inch Fans, 60 and 125/140 Cycles

Specifications



WALL BRACKET MOTOR



DESK MOTOR

SPEED REGULATOR.—Six-point regulating coil and switch.

SPEEDS.—Full speed, 60 cycles, 1570 R.P.M.; 125 cycles, 1390 R.P.M.

VOLTAGES.—For 100 volts, 115 volts, 190 volts, and 220 volts.

FINISH.—Frame, base, and motor trimmings finished in black enamel; guard finished in dipped brass.

BLADES.—Four blades, lacquered brass.

FRAME.—Ventilated.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of desk motor complete, 32.5 pounds; boxed for shipment, 56.5 pounds. Weight of bracket motor complete, 33.5 pounds; boxed for shipment, 57.5 pounds.

SPECIAL MOTORS.—Motors for special frequencies and voltages built to order. Prices will be named on receipt of specifications.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.50.**

RANGE OF OPERATION.—Motors can be operated satisfactorily on circuits, the voltage or frequency of which may vary 5% above or below rated voltage or frequency, or when the sum of the voltage and frequency does not exceed 5%.

ADJUSTMENT.—Adjustable both horizontally and vertically.

SIMILARITY.—Desk and wall bracket type of motors are identical, with the exception that the wall bracket motor has, in addition to the standard parts of the desk type, an angular adapter.

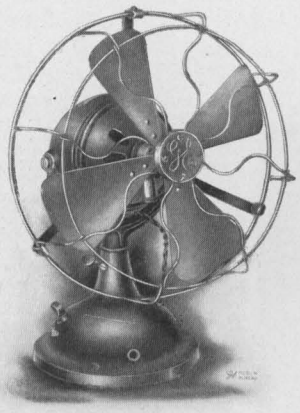
Cat. No.		Cycles	Voltage	List Price	
Desk	Bracket			Desk	Bracket
34021	36332	60	100/115	**$36.00**	**$36.00**
34022	36333	60	190/220	**38.00**	**38.00**
34023	36334	125/140	100/115	**36.00**	**36.00**
34024	36335	125/140	190/220	**38.00**	**38.00**

FAN MOTORS

Alternating Current Swivel and Trunnion Frame Desk and Wall Bracket Motors

Twelve-Inch Fans, Twenty-five and Forty Cycles

Specifications



LOW FREQUENCY DESK MOTOR

SPEED REGULATOR.—Six-point regulating coil and switch.

SPEEDS.—Full speed, 25 cycles, 1700 R.P.M.; 40 cycles, 1900 R.P.M.

VOLTAGES.—For 110 volts, 25 cycles; and for 125 volts, 40 cycles.

FINISH.—Frame, base, and motor trimmings finished in black enamel; guard finished in dipped brass.

BLADES.—Four blades, lacquered brass.

FRAME.—Ventilated.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of desk motor complete, 19.5 pounds; boxed for shipment, 38.5 pounds. Weight of bracket motor complete, 20.5 pounds; boxed for shipment, 39.5 pounds.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.50.**

ADJUSTMENT.—Adjustable both horizontally and vertically.

SIMILARITY.—Desk and wall bracket type of motors are identical, with the exception that the wall bracket motor has, in addition to the standard parts of the desk type, an angular adapter.

Cat. No.		Cycles	Volts	List Price	
Desk	Bracket			Desk	Bracket
34267	36546	25	110	**$33.00**	**$33.00**
33594	36545	40	125	**33.00**	**33.00**

FAN MOTORS

Alternating Current Spring Suspension Telephone Booth Motors

Eight-Inch Fans

This type of motor is designed especially for use in telephone booths and small compartments, and for installing on partitions subject to vibration. The motor operates noiselessly, due to its slow speed and proper mechanical construction.

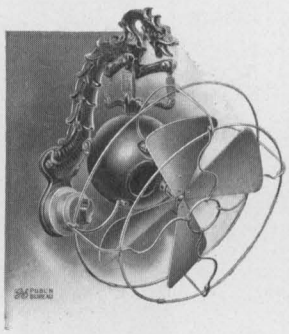
It can be turned on its vertical axis, distributing a breeze in all directions, and can be held permanently in any position by a set screw in a suspension spider.

The frame and bracket are finished in black enamel; the bracket is hollow to receive the supply wires, and can be screwed to the wall or partition.

Special windings permit the use of these motors in series with an incandescent lamp, thus permitting the simultaneous lighting and cooling of the compartment.

A snap switch can be furnished to start and stop the motor, provision being made for it at the base of the bracket.

Special finishes can be furnished to suit requirements; the standard finish is black, with brass fan and guard.



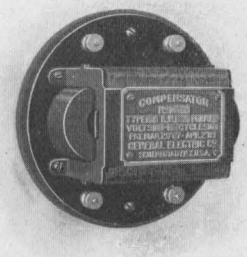
TELEPHONE BOOTH MOTOR

Cat. No.	Voltage	Cycles	List Price
87763	110	60	$18.00
*86791	55	60	18.00
*86813	60	140	18.00

*For operation only in series with 52 volt, 8 C.P., 32 Watt lamp on 104 volt circuit.

Above prices do not include lamp or switch. An Edison base lamp and T.-H. adapter can be furnished at an additional price of **25 cents net.**

Compensators for Alternating Current Fan Motors on Sixty Cycle Circuits and Upwards



FAN MOTOR COMPENSATOR

The alternating current compensators, manufactured by the General Electric Company, provide for the use of a 52-volt fan motor on a 104-volt circuit, or a 104-volt fan motor on a 52-volt circuit. One compensator is required for each motor. The compensator is mounted on an enameled slate base, and is furnished with four nickel-plated binding posts, two marked "52 volts," and two marked "104 volts." One set of binding posts is for connection to the motor and the other for connection to the circuit.

For a 104-volt motor on a 52-volt circuit, the posts marked "52 volts" are connected to the circuit. For a 52-volt motor on a 104-volt circuit, the posts marked "52 volts" are connected to the motor. The device is simple and can be readily installed by any wireman without special instructions. It is especially convenient for central stations, because it enables motors to be provided for 52-volt or 104-volt circuits without regard to which of these motors happens to be in stock.

Cat. No.	Description	List Price
3657	12″ Fan Motor Compensator, complete . . .	Prices on application
41596	16″ Fan Motor Compensator, complete . . .	

FAN MOTORS

Alternating Current Ceiling and Column Fans

CEILING FANS

SPEED REGULATOR.—Four-point regulating coil and switch.

SPEEDS { PLAIN TYPE.—Two speeds, 225 and 170 R.P.M. / ORNAMENTAL TYPE.—Three speeds, 225, 200 and 170 R.P.M.

VOLTAGES.—115 and 220.

FINISH { PLAIN TYPE.—Black japan and oxidized copper / ORNAMENTAL TYPE.—Streaked oxidized copper.

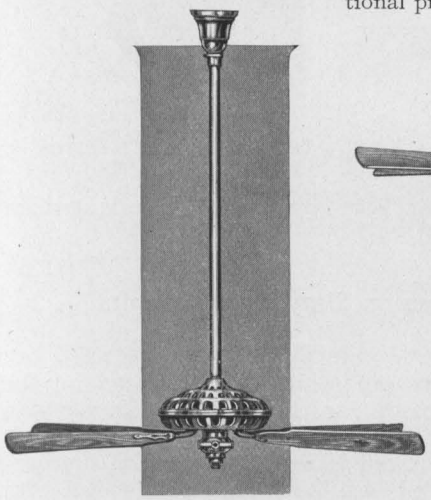
BLADES.—Four wooden, highly finished interchangeable blades, 52-inch sweep.
FRAME.—Ventilated.
LENGTH.—54 inches over all.
BEARINGS.—Self-aligning and self-oiling.
WEIGHT.—62 pounds, complete.
SPECIAL MOTORS.—Motors for 40, 50, or 60 cycles, and special voltages made to order.
NOTE.—From three to six lamps with electrolier fittings can be furnished to order at an additional price.

PLAIN TYPE

Cat. No.	Finish	Cycles	Voltage	List Price
46208	Blk. Japan	60	100-110	**$60.00**
44986	" "	60	112-120	**60.00**
44987	" "	60	220	**62.00**

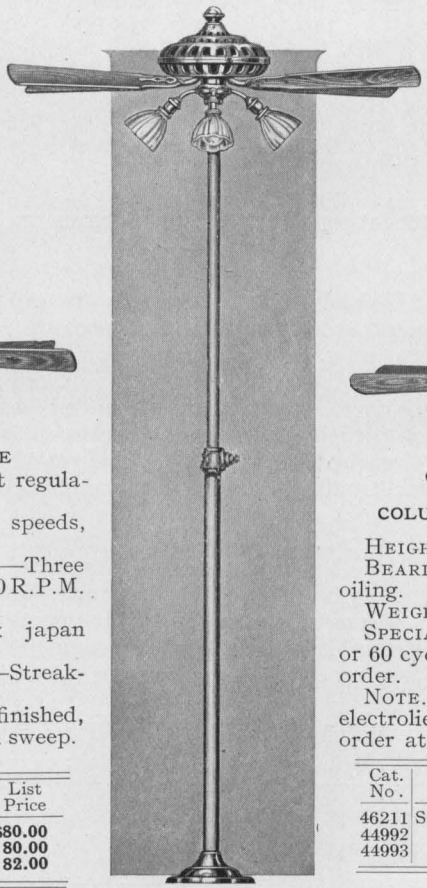
ORNAMENTAL TYPE

46209	Strkd. Ox. Cop.	60	100-110	**$66.00**
44988	" " "	60	112-120	**66.00**
44989	" " "	60	220	**68.00**

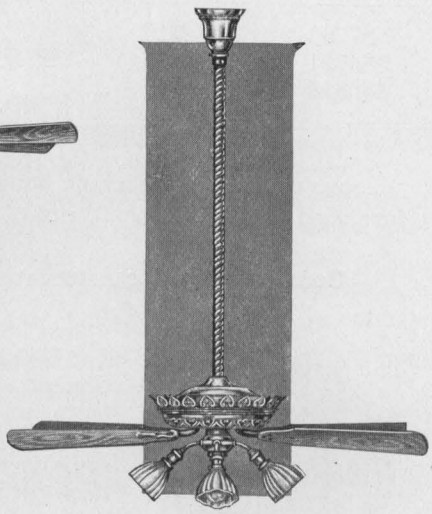


Plain Type Ceiling Fan

COLUMN FANS



Ornamental Type Column Fan



Ornamental Type Ceiling Fan

COLUMN FAN—PLAIN TYPE

SPEED REGULATOR.—Four-point regulating coil and switch.

SPEEDS { PLAIN TYPE.—Two speeds, 225 and 170 R.P.M. / ORNAMENTAL TYPE.—Three speeds, 225, 200 and 170 R.P.M.

VOLTAGES.—115 and 220.

FINISH { PLAIN TYPE.—Black japan and oxidized copper. / ORNAMENTAL TYPE.—Streaked oxidized copper.

BLADES.—Four wooden, highly finished, interchangeable blades, 52-inch sweep.
FRAME.—Ventilated.

Cat. No.	Finish	Cycles	Voltage	List Price
46210	Blk. Japan	60	100-110	**$80.00**
44990	" "	60	112-120	**80.00**
44991	" "	60	220	**82.00**

COLUMN FAN—ORNAMENTAL TYPE

HEIGHT.—7½ feet over all.
BEARINGS.—Self-aligning and self-oiling.
WEIGHT.—100 pounds, complete.
SPECIAL MOTORS.—Motors for 40, 50, or 60 cycles, and special voltages made to order.
NOTE.—From three to six lamps with electrolier fittings can be furnished to order at an additional price.

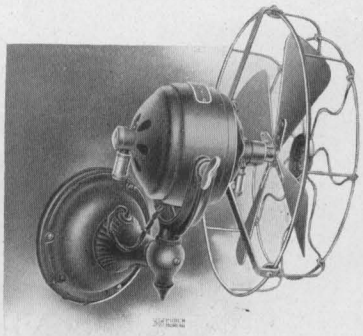
Cat. No.	Finish	Cycles	Voltage	List Price
46211	Strkd. Ox. Cop.	60	100-110	**$86.00**
44992	" " "	60	112-120	**86.00**
44993	" " "	60	220	**88.00**

FAN MOTORS

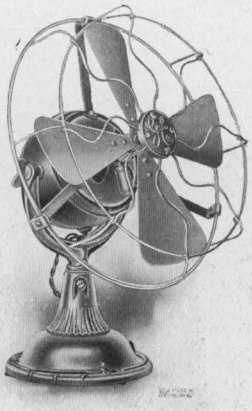
Direct Current Swivel and Trunnion Frame Desk and Wall Bracket Motors

Twelve-Inch Fans

Specifications



WALL BRACKET MOTOR



DESK MOTOR

SPEED REGULATOR.—Four-point regulating coil and switch.

SPEEDS.—Three running speeds, 900, 1200, and 1500 R.P.M.

VOLTAGES.—For 115 and 230 volts.

FINISH.—Frame and base finished in black japan; guard in lacquered brass.

BLADES.—Four blades, lacquered brass.

FRAME.—Ventilated, with removable shield.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of desk motor complete, 21¼ pounds; boxed for shipment, 35 pounds. Weight of bracket motor complete, 22¼ pounds; boxed for shipment, 36 pounds.

SPECIAL MOTORS.—Motors for special voltages built to order. Prices will be named on receipt of specifications.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.50.**

ADJUSTMENT.—Adjustable both horizontally and vertically.

RANGE OF OPERATION.—Motors can be operated satisfactorily on circuits, the voltage of which is 10% above or below the rated voltage.

SIMILARITY.—Desk and wall bracket type of motors are identical, with the exception that the wall bracket motor has, in addition to the standard parts of the desk type, an angular adapter.

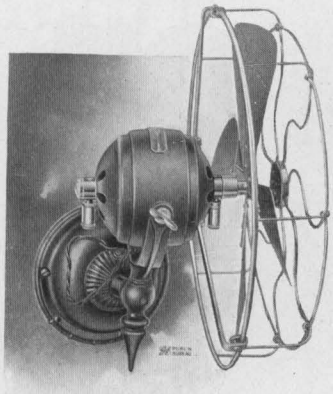
Cat. No.		Volts	List Price	
Desk	Bracket		Desk	Bracket
34003	36324	115	**$24.00**	**$24.00**
34004	36325	230	**26.00**	**26.00**

FAN MOTORS

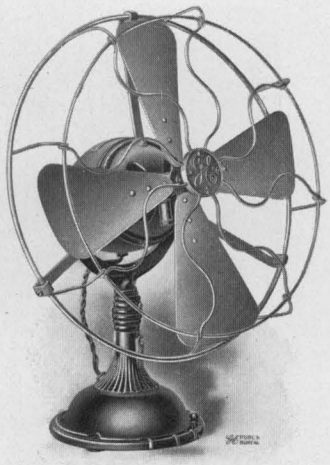
Direct Current Swivel and Trunnion Frame Desk and Wall Bracket Motors

Sixteen-Inch Fans

Specifications



WALL BRACKET MOTOR



DESK MOTOR

SPEED REGULATOR.—Four-point regulating coil and switch.

SPEEDS.—Three running speeds, 900, 1200, and 1500 R.P.M.

VOLTAGES.—For 115 and 230 volts.

FINISH.—Frame and base finished in black japan; guard in lacquered brass.

BLADES.—Four blades, lacquered brass.

FRAME.—Ventilated, with removable shield.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of desk motor complete, 31 pounds; boxed for shipment, 51 pounds. Weight of bracket motor complete, 32 pounds; boxed for shipment, 52 pounds.

SPECIAL MOTORS.—Motors for special voltages built to order. Prices will be named on receipt of specifications.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.50.**

ADJUSTMENT.—Adjustable both horizontally and vertically.

RANGE OF OPERATION.—Motors can be operated satisfactorily on circuits, the voltage of which is 10% above or below the rated voltage.

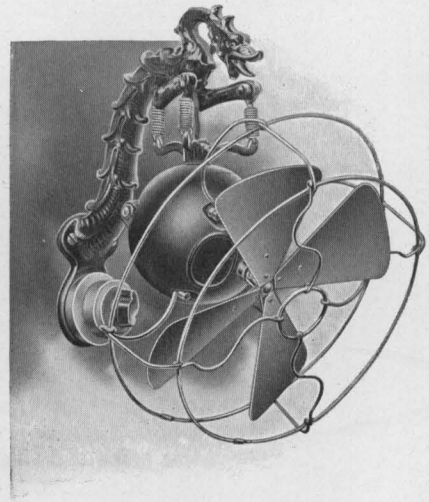
SIMILARITY.—Desk and wall bracket type of motors are identical, with the exception that the wall bracket motor has, in addition to the standard parts of the desk type, an angular adapter.

Cat. No.		Volts	List Price	
Desk	Bracket		Desk	Bracket
34005	36326	115	**$32.50**	**$32.50**
34006	36327	230	**34.50**	**34.50**

FAN MOTORS

Direct Current Telephone Booth Motors, Spring Suspension

Eight-Inch Fans



TELEPHONE BOOTH MOTOR

In telephone booths where space is limited, or for installation on light partitions subject to vibration, the spring suspended telephone booth fan motor is especially desirable. By means of the spring suspension, vibration is eliminated, and the operation of the motor rendered noiseless. The motor can be turned about on its vertical axis, distributing a breeze in all directions, and is held permanently in any desired position by a set screw in the suspension spider. The ornamental dragon bracket is hollow, to receive supply wires, and can be screwed to the wall or partition. A snap switch to start and stop motor is placed at the base of the bracket.

Although this motor uses little current, it will move a large volume of air.

The frame and bracket are finished in black enamel.

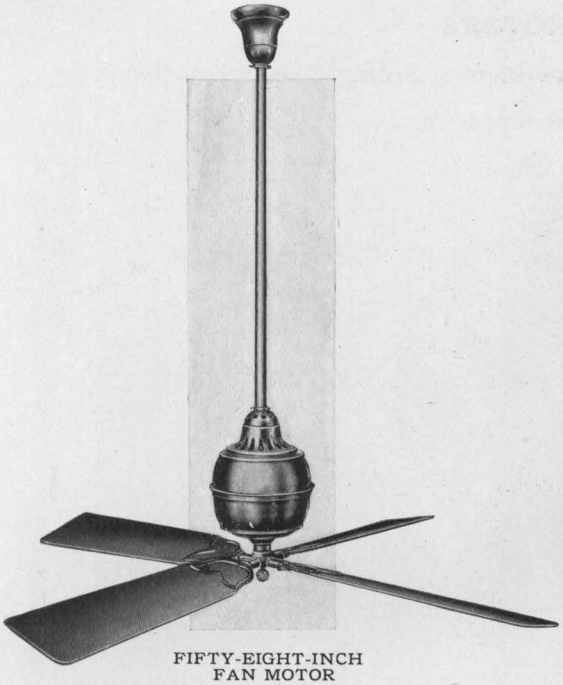
The 8-inch fan and guard are of lacquered brass.

Speed 1200 R.P.M.

Cat. No.	Voltage	List Price
86790	115	**$18.00**
*86792	18	**18.00**

*For operation only in series with 110 volt, 16 C.P., 55 watt lamp on 115 volt circuit.

Above prices do not include lamp or switch. An Edison base lamp and T.-H. adapter can be furnished at an additional price of **25 cents net.**



FIFTY-EIGHT-INCH FAN MOTOR

Specifications

SPEED.—Running speed, 200 R.P.M.

VOLTAGES.—For 115 and 230 volts.

FINISH.—Black japanned.

BLADES.—Four wooden, highly finished interchangeable blades, 56-inch sweep.

FRAME.—Enclosed, dust proof. Frame, field core, and yoke in one casting.

*LENGTH.—Standard length over all is 54 in.

BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of motor complete, 52 lbs.

SPECIAL FINISHES.—Royal blue and gold, wine red and gold, white and gold, applied to motors at an additional **net price of $1.00.**

RANGE OF OPERATION.—Motors for 115 volts may be used on any voltage from 105 to 125; motors for 230 volts may be used on any voltage from 210 to 250.

SNAP SWITCH.—To start and stop this motor, it is recommended that Cat. No. 34264 snap switch be used, which should be wired in series with the motor. **List price, 32 cents.**

SPEED CONTROLLER.—If more than one speed is desired, a speed controller can be furnished which will give approximately 120, 160, and 200 R.P.M.

Cat. No.	Voltage	List Price
34007	115	**$33.00**
34008	230	**36.00**
SPEED CONTROLLERS		
34038	115	**$5.00**
34039	230	**5.50**

*Extra length suspensions, japanned, **25c.** per ft.; streaked oxidized copper, **35c.** per ft. Special finishes, **40c.** per ft.

FAN MOTORS

Direct Current Ceiling Fan Motors

Specifications

SPEED REGULATOR.—Four-point regulating coil and switch.

SPEEDS.—Three running speeds, 120, 165, and 205 R.P.M.

VOLTAGES.—For 115 and 230 volts.

FINISH.—Streaked oxidized copper.

BLADES.—Four wooden, highly finished interchangeable blades, 58-inch sweep.

FRAME.—Enclosed, dust proof.

*LENGTH.—Standard length over all is 54 inches.

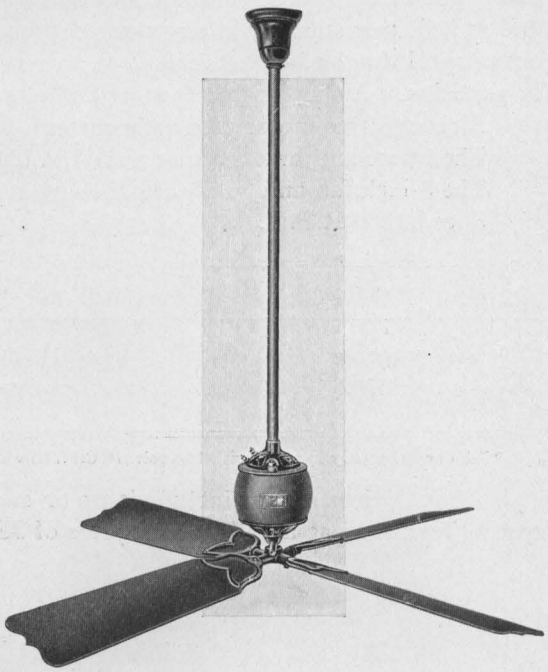
BEARINGS.—Self-aligning and self-oiling, made of brass composition metal.

WEIGHT.—Weight of motor complete, 59 pounds.

SPECIAL FINISHES.—Polished brass or brush brass applied to motors at an additional **net price of $1.00.**

RANGE OF OPERATION.—Motors for 115 volts may be used on any voltage from 105 to 125; motors for 230 volts may be used on any voltage from 210 to 250.

Cat. No.	Fan	Volts	List Price
37642	4-blade	115	**$46.00**
37643	4-blade	230	**49.00**



FIFTY-SIX-INCH FAN MOTOR

FAN MOTORS

Appliances



Cat. No. 35351



Straight Adapter



Angular Adapter for 16″ Fan



Angular Adapter for 12″ Fan



Cat. No. 34153



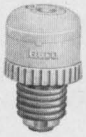
Cat. No. 50751



Cat. No. 3089



Cat. No. 34264



Cat. No. 28840



Cat. No. 42456



Cat. No. 50755



Cat. Nos. 50736 and 50749



Cat. No. 9171



Cat. No. 50746



Cat. No. 9185

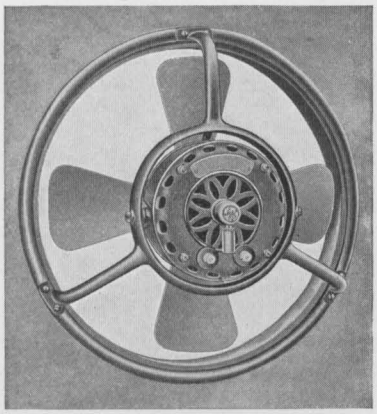
Cat. No.	Description	List Price
3089	Attaching Plug, with fuse, for Edison screw sockets and receptacles	$0.22
28840	Swivel Attaching Plug for Edison screw sockets and receptacles	.30
50751	Combined Attaching Plug and Lamp Socket	.50
34153	Attaching Plug, with brass shell with $\frac{1}{8}$″ nozzle	.22
34154	Attaching Plug, with brass shell with $\frac{1}{4}$″ nozzle	.22
35351	Combined Attaching Plug and Lamp Socket, with brass shell	.60
	Wall Receptacles for Edison Attaching Plugs, No s. 3,089, 28,840 *and* 50,751:	
9171	Keyless, porcelain	.10
9185	Keyless, with fiber lining and white porcelain base	.40
50746	Keyless, with fiber lining and concealed base	.40
50755	Keyless Angle porcelain	.50
	Wall Receptacles for T.-H. Attaching Plugs:	
50736	Keyless, with fiber lining and white porcelain base	.40
50749	Keyless, with fiber lining and chocolate-colored base	.40
	No. 18 B.&S. Reinforced Flexible Attaching Cord, cotton, per yard	.25
	No. 18 B.&S. Reinforced Flexible Attaching Cord, silk, per yard	.35
34264	Single Pole Snap Switch, 6 amp., 110 volts; 3 amp., 220 volts, nickeled	.32

List Prices of Accessories

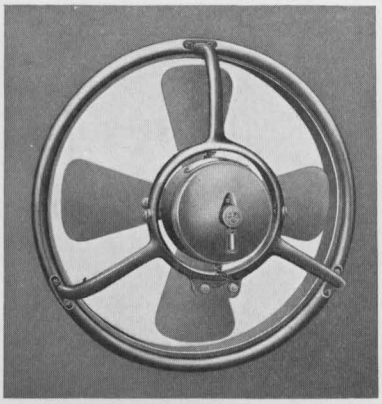
Fans	Guards	Adapters
List Price	List Price	List Price
12″, **$1.50** 16″, **2.75**	12″, **$2.00** 16″, **2.75**	Straight, **$0.70** Angular for 12″ fan, **.70** Angular for 16″ fan, **.70**

FAN MOTORS

Ventilating Fans



SIXTEEN-INCH ALTERNATING CURRENT EXHAUST FAN



SIXTEEN-INCH DIRECT CURRENT EXHAUST FAN

Alternating Current Outfits

Cat. No.	Diam. Fan	Cycles	Volts	List Price
35307	12″	25	110	$27.00
35308	12″	40	125	27.00
34025	12″	60	100–115	23.00
34026	12″	60	190–220	25.00
34029	16″	60	100–115	30.00
34030	16″	60	190–220	32.00

Speed Controllers for Alternating Current Motors

35309	12″	25	110	$3.50
35310	12″	40	125	3.50
28604	12″	60	100–115	3.50
26376	12″	60	190–220	4.00
28608	16″	60	100–115	4.00
26381	16″	60	190–220	4.50

Direct Current Outfits

Cat. No.	Diam. Fan	Volts	List Price
34009	12″	115	$23.00
34010	12″	230	25.00
34011	16″	115	31.00
34012	16″	230	33.00

Speed Controllers for Direct Current Motors

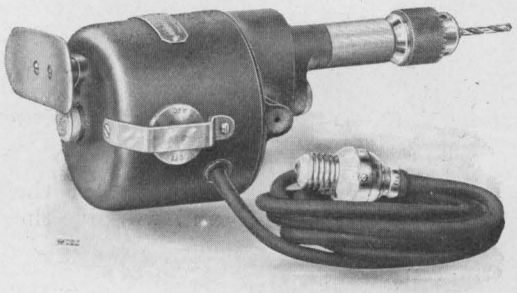
34034	12″	115	$4.00
34035	12″	230	4.50
34036	16″	115	4.50
34037	16″	230	5.00

SMALL POWER MOTORS

This company is prepared to furnish in addition to the regular line of fan motors, the following Small Power Motors for special purposes. Publications descriptive of these motors will be gladly mailed on request.

PORTABLE ELECTRIC BREAST DRILL

Description



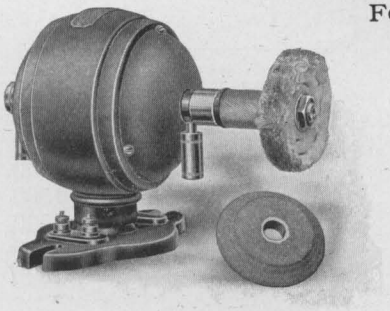
This outfit is designed for the use of contractors, builders, machinists, etc. With this outfit may be used drills up to and including 21-64″ in diameter for drilling in wood, or in cast iron, brass, and similar metals.

The motor is series wound for 115 or 230 volt, direct current circuits, is totally enclosed and thoroughly insulated, so that the user is free from the liability of even a mild shock.

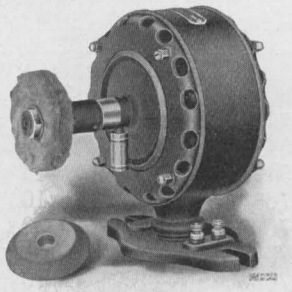
The complete outfit consists of motor, Jacobs chuck, tightening key, and ten feet of attaching cord and Edison plug. It weighs, complete, approximately 16 pounds.

SMALL BUFFING AND GRINDING MOTORS

For Domestic Use

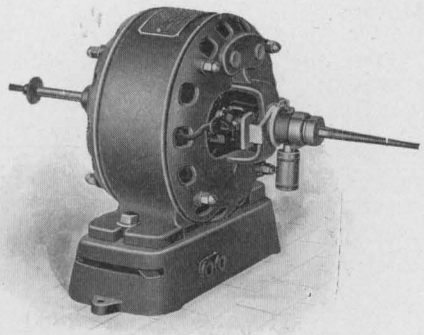


D.C. MOTOR

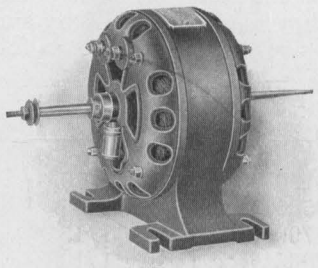


A.C. MOTOR

For Jewelers and Dentists



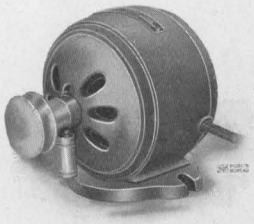
D.C. MOTOR



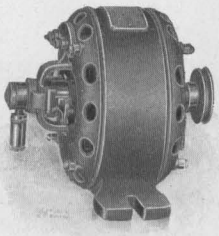
A.C. MOTOR

1/10 H.P. D.C. and 1/15 and 1/10 H.P. A.C. MOTORS

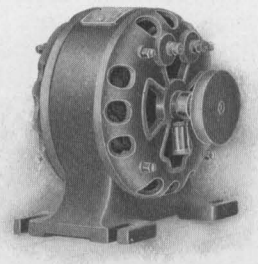
SMALL POWER MOTORS



1-15 HORSE-POWER DIRECT CURRENT MOTOR



1-10 HORSE-POWER DIRECT CURRENT MOTOR



1-15 HORSE-POWER ALTERNATING CURRENT MOTOR

These motors are applicable to a large variety of work requiring power within their capacity. They are strong and durable mechanically and electrically, and will give their full rated brake horse-power output at the pulley.

The standard finish is black japan with nickel trimmings.

Direct Current Motors

These motors require no starting rheostat and are furnished as follows:—

Cat. No.	H.P.	Winding	Volts	Speed—R.P.M.
*46099	1/35	Series	115	1800
45472	1/15	Series	115	2200
*45473	1/15	Series	230	2200
45474	1/15	Shunt	115	1600
27683	1/10	Shunt	115	1500
27684	1/10	Shunt	230	1500
27685	1/10	Series	115	1500
27686	1/10	Series	230	1500

*Cannot be shunt wound.

Approximate shipping weight, 45 lbs.

Alternating Current Motors

These motors are of the single-phase induction type and are self-starting under full load. They may be started by simply closing the line switch.

The sizes furnished are as follows:—

Cat. No	H.P.	Cycles	Volts	Speed—R.P.M.
46100	1/30	60	110	1800
29560	1/15	60	110	1800
31799	1/15	60	220	1800
32063	1/10	60	110	1800
32065	1/10	60	220	1800

Approximate shipping weight, 55 lbs.

SEWING MACHINE MOTORS

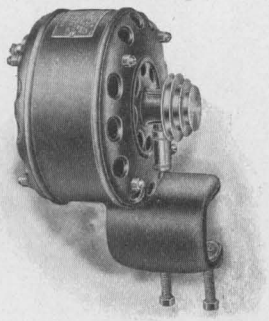
For Domestic Use

To meet the large demand for a satisfactory electric motor for domestic service, the following outfit has been designed. The large number in use attests its popularity and adaptability.

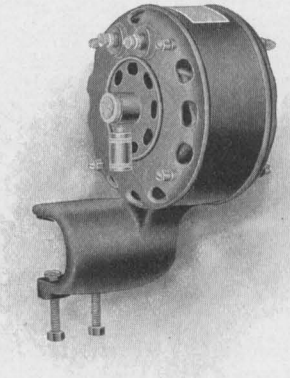


A TYPICAL OUTFIT

The complete outfit consists of a motor with a three-step cone pulley, and an attachment consisting of a brake and belt-tightening mechanism, leather strap for fastening to the treadle, necessary screws or clamps and leather driving belt. The motors are furnished in two styles of frame. The Form A frame, which has its foot offset toward the pulley, is adapted principally to stationary head machines, while Form B, which has its foot offset away from the pulley, is usually required for drophead machines.



SEWING MACHINE MOTOR WITH FORM A FRAME



SEWING MACHINE MOTOR WITH FORM B FRAME

SEWING MACHINE MOTORS

There are seven different forms of attachments, known respectively as Forms A, B, C, D, E, F & G, one of which combined with either a Frame No. 1 or a Frame No. 2 Motor affords an equipment adapted for driving any of the sewing machines as covered in the following list:

Make of Sewing Machine	Style	Direction of Rotation of Motor from Pulley End	Attachment, Form	Motor Frame, Form
American	S.H.	Clockwise	A	A
American Union	D.H.	Clockwise	A	B
Avon	S.H.	Clockwise	A	A
Avon	D.H.	Clockwise	B	B
Burdick	S.H.	Clockwise	A	A
Burdick	D.H.	Clockwise	A	B
Champion	S.H.	Counter-Clockwise	A	A
Climax	S.H.	Clockwise	A	A
Davis	S.H.	Clockwise	A	A
Davis	D.H.	(See Unique)	—	—
Demorest	S.H.	Counter-Clockwise	A	A
Demorest	D.H.	Counter-Clockwise	B	B
Domestic	S.H.	Counter-Clockwise	A	A
Domestic	D.H.	Counter-Clockwise	B	B
Eldridge	D.H.	Clockwise	A	B
Eldridge Automatic	S.H.	Counter-Clockwise	C	A
Eldridge Automatic	D.H.	Counter-Clockwise	C	B
Expert	S.H.	Clockwise	A	A
Expert	D.H.	Clockwise	B	B
Household	S.H.	Counter-Clockwise	A	A
Household	D.H.	Counter-Clockwise	B	B
Howard	S.H.	Clockwise	A	A
Howard	D.H.	Clockwise	E	B
Kruse & Murphy	S.H.	Counter-Clockwise	G	A
Mayflower	S.H.	Clockwise	A	A
Montgomery Ward	D.H.	Clockwise	B	B
National Seamstress	S.H.	Clockwise	A	A
National Seamstress	D.H.	Clockwise	B	B
New Companion	S.H.	Clockwise	A	A
New Companion	D.H.	Clockwise	A	B
New Crown	S.H.	Clockwise	—	A
New Crown	D.H.	Clockwise	A	B
New Home	S.H.	Clockwise	A	A
New Home	D.H.	Clockwise	A	B
Princess	S.H.	Clockwise	A	A
Singer	S.H.	Clockwise	A	A
Singer	D.H.	Clockwise	B	B
Standard Rotary	S.H.	Counter-Clockwise	A	A
Standard Rotary	D.H.	Counter-Clockwise	D	B
Standard Oscillating	S.H.	Counter-Clockwise	A	A
Standard Oscillating	D.H.	Counter-Clockwise	B	B
Unique (Davis Style H)	D.H.	Clockwise	F	B
Wheeler & Wilson	S.H.	Counter-Clockwise	A	A
Wheeler & Wilson	D.H.	Counter-Clockwise	A	B
White Rotary	S.H.	Counter-Clockwise	A	A
White Rotary	D.H.	Counter-Clockwise	B	B
White Oscillating	S.H.	Clockwise	A	A
White Oscillating	D.H.	Clockwise	A	B
Wilcox & Gibbs	S.H.	Counter-Clockwise	C	A
Wilcox & Gibbs	D.H.	Counter-Clockwise	C	B

D.H. means Drop Head. S.H. means Stationary Head.

Rotation

CLOCKWISE.—Meaning that the top of the hand wheel of the sewing machine turns toward the operator.

COUNTER-CLOCKWISE.—Meaning that the top of the hand wheel of the sewing machine turns away from the operator.

The instruction book furnished with these motors gives the simple instructions necessary for changing the direction of motor rotation when necessary.

SEWING MACHINE MOTORS

Motors for domestic use are ordinarily supplied in 1/15 H.P. size direct current, and 1/30 H.P. size alternating current. The following list gives the ratings of these motors together with the ratings of the larger sized motors also, with clamp foot:

Direct Current Shunt Wound Motors

*Cat. No.	H.P.	Approximate Speed R.P.M.	†Volts	Motor Frame Form	Rotation Facing Pulley End
46101	1/15	1600	115	A	Clockwise
46102	1/15	1600	115	B	
46103	1/15	1600	230	A	
46104	1/15	1600	230	B	
46105	‡1/10	1500	115	A	Clockwise
46106	‡1/10	1500	230		

†Standard motors will operate satisfactorily on circuits of 105 to 125 volts.

Alternating Current Single-Phase Induction Motors

*Cat. No.	H.P.	Speed, R.P.M.	†Volts	Cycles	Motor Frame Form	Rotation Facing Pulley End
46107	1/30	1800	110	60	A	Clockwise
46108	1/30	1800	110	60	B	
46109	1/30	1800	220	60	A	
46110	1/30	1800	220	60	B	
46111	‡1/15	1800	110	60	A	Clockwise
46112	‡1/15	1800	220	60		

†Standard motors will operate well on voltages ranging from 100 to 120, provided the frequency does not vary more than 5% either way from the normal.

‡These motors are not furnished in a Form B frame.

Approximate shipping weight of complete outfit, 50 lbs.

***Cat. No. covers motor and three-step cone pulley ONLY. In ordering outfit, Cat. No. of motor AND a form A, B, C, D, E, F, or G attachment, as referred to on Page 168, should be specified.**

The motors are wound to run clockwise facing the pulley and are always so furnished unless the order specifies counter-clockwise rotation. Instruction book gives simple directions for changing rotation.

SEWING MACHINE MOTORS

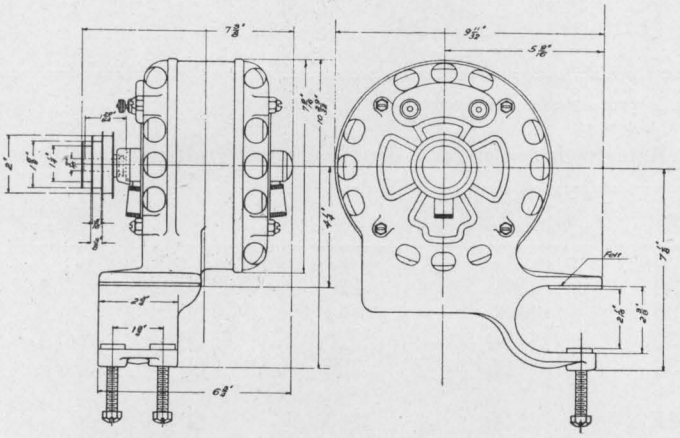
Motors for Tailors, Heavy Dressmaking and Factory Sewing Machines

For this class of work standard power motors with flat feet as described on page 166 are commonly furnished, as the sewing machine manufacturer usually supplies speed controlling devices to which the motor can be belted.

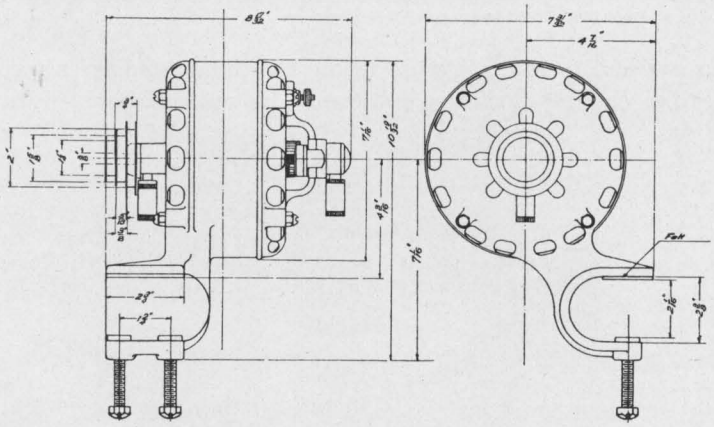
In case any of the attachments referred to under "Machines for Domestic Use" are required with these motors, order motor by Cat. No. under "Standard Power Motors," and specify that a three-step double flange pulley and Form A, B or C, etc., attachment be furnished.

If motors with clamp foot are desired we can supply 1/15 Horse Power alternating, and 1/10 Horse Power direct current motors as listed under domestic outfits. Attachments should be specified, if desired.

Dimensions



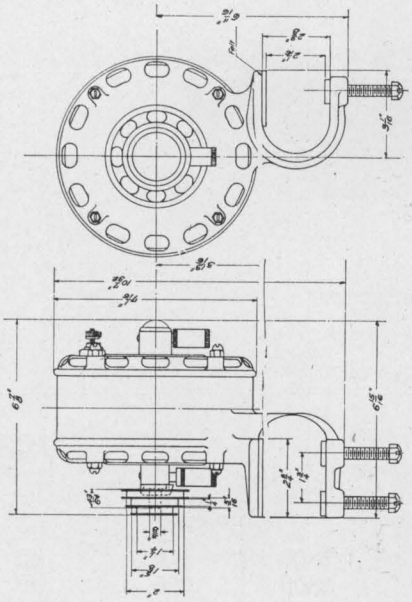
1/15 HORSE POWER, ALTERNATING CURRENT MOTOR, WITH FORM A FRAME, WITH CLAMP FOOT



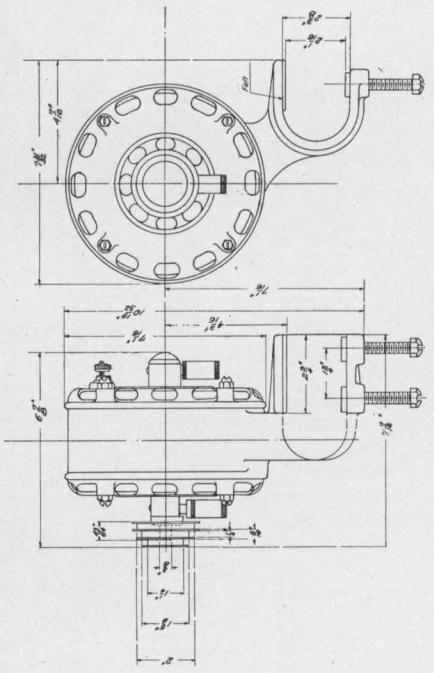
1/10 HORSE POWER, DIRECT CURRENT MOTOR, WITH FORM A FRAME, WITH CLAMP FOOT

SEWING MACHINE MOTORS FOR DOMESTIC USE

Dimensions

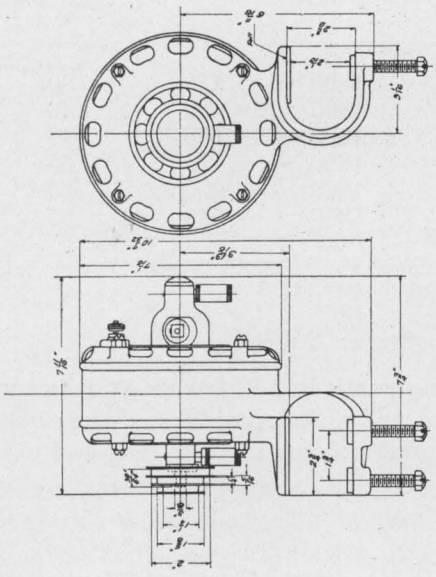


Frame Form A

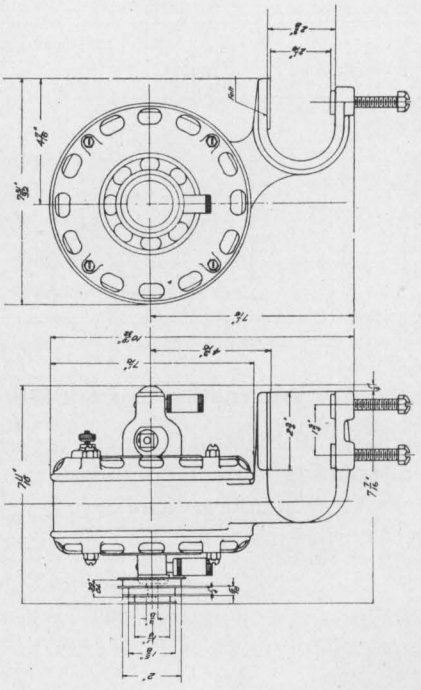


Frame Form B

1/30 H.P. ALTERNATING CURRENT MOTORS



Frame Form A

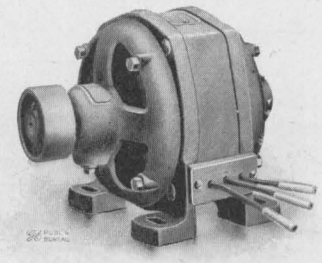


Frame Form B

1/15 H.P. DIRECT CURRENT MOTORS

SMALL ALTERNATING CURRENT MOTORS

Two and Three-Phase, 60 Cycles



1-2 HORSE POWER THREE-PHASE MOTOR

TWO-PHASE

Dimensions of Standard Pulley in Inches		Classification				Volts	Approx. Weight in Lbs.
Diam.	Face	Type	Poles	H. P.	Speed		
3	1¼	IQ	4	¼	1800	110	40
3	1¼	IQ	4	¼	1800	220	40
3	1¼	IQ	4	¼	1800	550	40
3½	1¾	IQ	4	½	1800	110	55
3½	1¾	IQ	4	½	1800	220	55
3½	1¾	IQ	4	½	1800	550	55

THREE-PHASE

3	1¼	I	4	¼	1800	110	40
3	1¼	I	4	¼	1800	220	40
3	1¼	I	4	¼	1800	550	40
3½	1¾	I	4	½	1800	110	55
3½	1¾	I	4	½	1800	220	55
3½	1¾	I	4	½	1800	550	55

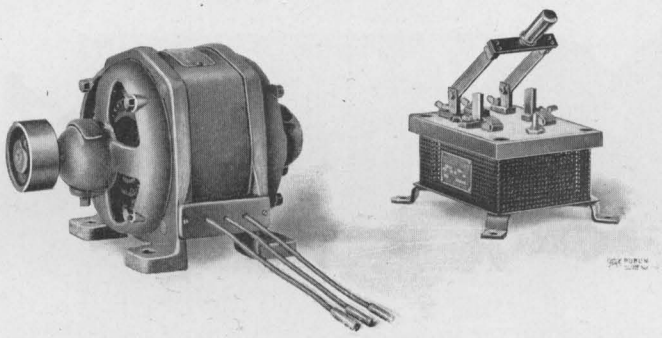
The speeds given above are synchronous. Actual speeds are 5½% below those listed in the tables.

Alternating Current Motors with Belt-Tightener Attachments

The General Electric Company is prepared to furnish automatic Belt-Tightener Attachments on its alternating current polyphase motors in sizes up to and including 5 H.P. These Belt-Tightener Attachments are similar in design, use and operation to those which are furnished with the direct current motors.

SMALL ALTERNATING CURRENT MOTORS

Single-Phase, 60 Cycles



IS 4 1/2 H. P., 1800 R.P.M., FORM KG, 110 VOLT
SINGLE-PHASE INDUCTION MOTOR
AND STARTING BOX

HAND STARTING MOTORS

Dimensions of Standard Pulley in Inches		Classification				Volts	Approx. Weight in Lbs.
Diam.	Face	Type	Poles	H. P.	*Speed		
3	1¼	IS	4	¼	1800	110	55
3	1¼	IS	4	¼	1800	220	55
3½	1¾	IS	4	½	1800	110	70
3½	1¾	IS	4	½	1800	220	70

SELF-STARTING MOTORS

Dimensions of Standard Pulley in Inches		Classification				Volts	Approx. Net Weight in Lbs.	Full Load Efficiency Per Cent.	Full Load Power Factor Per Cent.
Diam.	Face	Type	Poles	H. P.	*Speed				
3	1¼	IS	4	¼	1800–KG	110	55	60	66
3	1¼	IS	4	¼	1800–KG	220	55	60	66
3½	1¾	IS	4	½	1800–KG	110	70	63	68
3½	1¾	IS	4	½	1800–KG	220	70	63	68

*The speeds given above are synchronous. Actual speeds are 5½% below those listed in the tables.

Self-Starting Motors

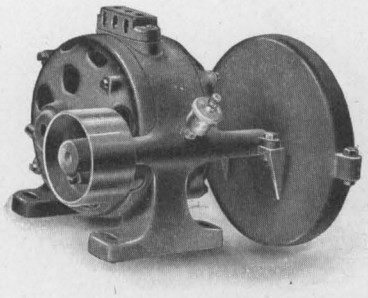
The full load starting torque of the Self-Starting Motor is 110%, which is obtained without undue increase of starting current as compared with running current. The stator or field winding is similar to that used with the standard three-phase motor. The rotor is of the simple squirrel-cage type.

The self-starting feature is obtained by the use of an external starting box containing a resistance coil and reactance coil mounted side by side and enclosed by a perforated metal box with a slate top, upon which is mounted a double-pole, double-throw switch.

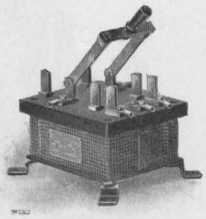
The double-throw switch is thrown into one position for starting and into the other position for running. THIS SWITCH SHOULD NEVER BE LEFT IN THE STARTING POSITION AFTER THE MOTOR HAS COME UP TO SPEED.

LINOTYPE MOTORS

Alternating Current



ALTERNATING CURRENT LINOTYPE MOTOR BACK GEARED



STARTING BOX FOR SINGLE PHASE MOTOR

The General Electric Company has developed a back geared alternating current linotype motor adapted for use on single-phase, two-phase or three-phase 110 or 220 volt circuits.

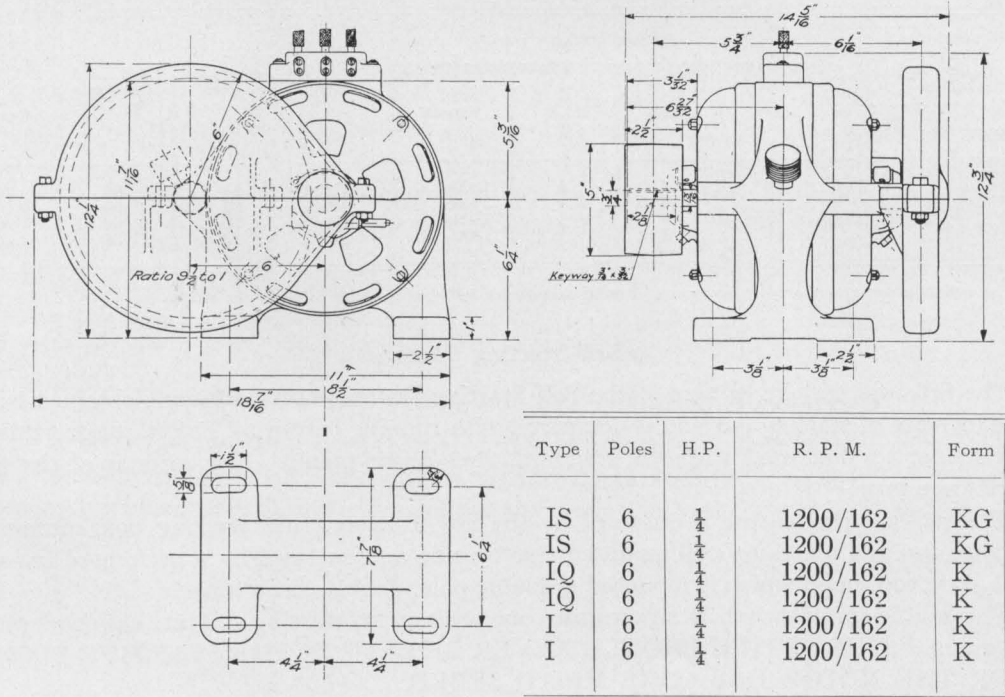
For the single-phase motor, the Company uses its standard resistance-reactance motor, Type IS 6– ¼ H.P.–1200–162, Form KG.

For the two-phase or three-phase motor the Type I and Type IQ 6– ¼ H.P.–1200–162, Form K are used. A strong and substantial gear case protects the gearing, and also aids materially in muffling any possible noise.

The whole outfit is well designed, substantial in construction, quiet in operation, and has been very carefully tried out in practical use.

With the single-phase equipment, the standard resistance-reactance starting box is furnished. The two and three-phase motors are self-starting, and require no external starting device.

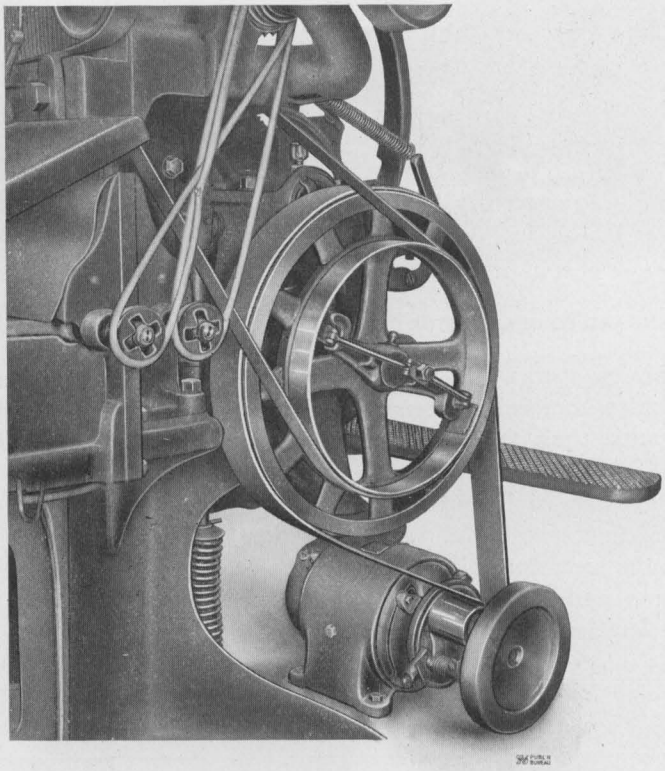
The general dimensions are shown in the accompanying diagram.



Type	Poles	H.P.	R. P. M.	Form	Volts
IS	6	¼	1200/162	KG	110
IS	6	¼	1200/162	KG	220
IQ	6	¼	1200/162	K	110
IQ	6	¼	1200/162	K	220
I	6	¼	1200/162	K	110
I	6	¼	1200/162	K	220

LINOTYPE MOTORS

Direct Current



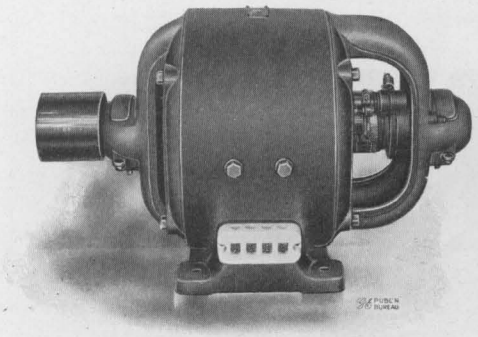
LINOTYPE MOTOR, SHOWING BELT TIGHTENER ATTACHMENT

The direct current linotype motor has a capacity of $\frac{1}{4}$ H.P. at 725 R.P.M., 115, 230 or 550 volts.

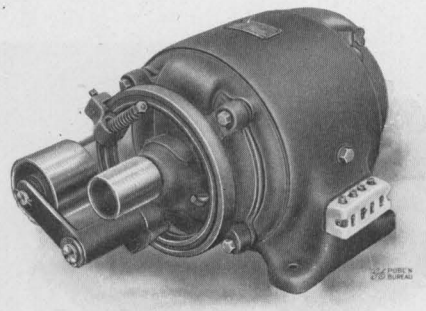
With each motor (for any one of these standard voltages) is furnished a standard Type RA speed controlling rheostat. This rheostat provides for reduction in speed to 550 R.P.M., at which speed the full horse-power output of the motor may be obtained.

The motor is provided with standard universal belt tightener attachment. The driving pulley is of the balance wheel type, 2″ in diameter, with a $3\frac{3}{8}$″ face. A special 20″ pulley is also provided to be substituted for the 14″ pulley ordinarily supplied with the linotype. The illustration shows the method of drive and demonstrates the fact that the motor in no way increases the amount of floor space required by the linotype machine itself.

DIRECT CURRENT CQ MOTORS



STANDARD CQ OPEN MOTOR



CQ MOTOR WITH BELT-TIGHTENER ATTACHMENT

The general design to which all sizes of the CQ Motor are built, has been worked out with special reference to combining strength and simplicity in mechanical construction, with high electrical constants, thus obtaining a motor of pleasing external appearance and substantial construction.

The end shields are so designed as to protect the windings from external injury while affording proper ventilation.

All CQ Motors are shipped assembled for floor installation, but may be readily arranged for side wall or ceiling suspension by turning the end shields 90 degrees, or 180 degrees, respectively.

CQ Motors, in sizes up to and including 2 H.P., moderate speed, are rated as follows:

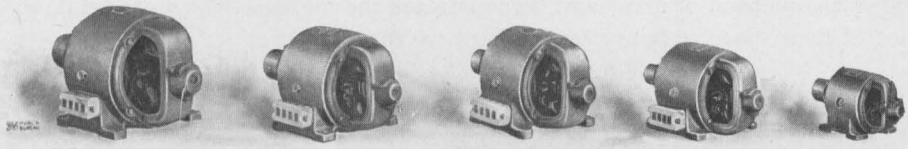
Volts	Classification	H. P.	*Speed	Classification	H. P.	*Speed	Classification	H. P.	*Speed	Classification	H. P.	*Speed	Classification	H. P.	*Speed
														1	1275
115		1/6	2300		¼	1850		½	1650		¾	1475		2	1900
														1	1275
230	CQ1/6	1/6	2300	CQ¼	¼	1850	CQ½	½	1650	CQ¾	¾	1475	CQ1	2	1950
														1	1575
550					¼	2250		½	2000		¾	1800		2	2350

*Speeds given are for standard shunt or compound wound motors. Speeds of series wound motors will differ slightly.

These motors are furnished with pulley and with starting rheostat, except the standard 1/6 H.P. motor, which does not require a starting rheostat.

With the exception of the standard 1/6 H.P. motor, all motors can be furnished with universal belt-tightener attachments or back gearing of 4 to 1 or 8 to 1 ratio.

Prices and detailed information may be obtained on application to nearest local office.



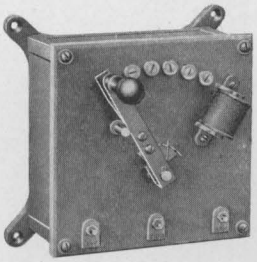
1, 3/4, 1/2, 1/4 AND 1/6 H.P. CQ MOTORS

MOTOR STARTING RHEOSTATS

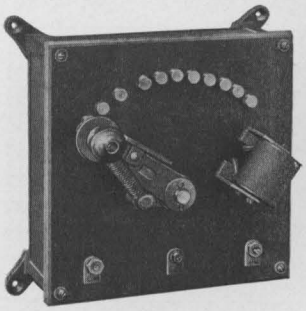
If rheostats are desired for use with motors overloaded in starting, or with motors which will not come to full speed within thirty seconds, the General Electric Company's nearest district office will, if notified of the amount of starting current and time required for the motor to come to speed, furnish recommendations and prices relative to a heavy duty starting rheostat.

Type SA Motor Starting Rheostats with no Voltage Release for Use with Shunt or Compound Wound Motors

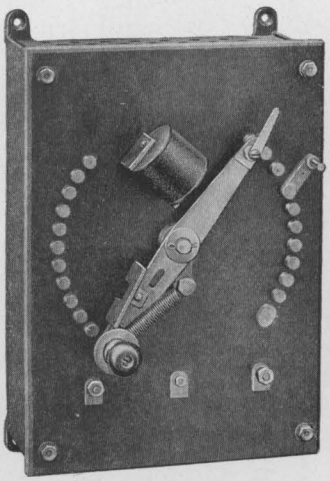
Not suitable for motors overloaded in starting or for motors which will not come to full speed within thirty seconds.



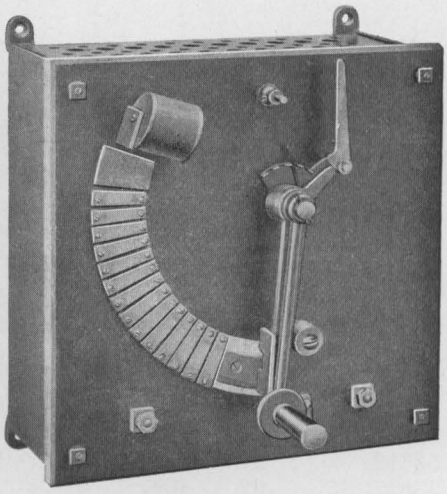
⅛ to ¾ H.P., 115, 230 and 500 Volts



1 to 5 H.P., 115, 230 and 500 Volts



7.5 and 10 H.P., 115 Volts
7.5, 10 and 15 H.P., 230 Volts
7.5, 10, 15 and 20 H.P., 500 Volts



15 H.P., and above, 115 Volts
20 H.P., and above, 230 Volts
25 H.P., and above, 500 Volts

Renewable segments and laminated switches are used in connection with rheostats of the following capacities:

15 H.P. and above, 115 Volts
20 H.P and above, 230 Volts
25 H.P. and above, 500 Volts

Tube resistance is used in sizes up to and including

15 H.P., 125, 250 and 500 Volts
20 and 25 H.P. 250–500 Volts
30 H.P. 500 Volts.

Iron grid resistance is used in all larger sizes. All sizes above 5 H.P. are equipped with auxiliary quick break devices for protecting the first starting point against burning.

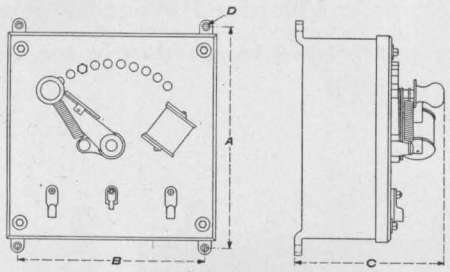
Prices will be furnished on application.

MOTOR STARTING RHEOSTATS

Type SA Rheostats with No-Voltage Release for Use with Shunt or Compound Wound Motors.

Dimensions

Not suitable for motors overloaded in starting or motors which will not come to full speed within thirty seconds.



FOR 125 VOLTS

Cat. No.	H. P.	Approx. Ship'g Wt.,Lbs.	Dimensions in Inches A	B	C	D	Cat. No.	H. P.	Approx. Ship'g Wt.,Lbs.	Dimensions in Inches A	B	C	D
56909	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53704	7 1/2	38	10 5/8	8 7/8	9 9/16	11/32
56912	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53707	10	45	14 5/8	8 7/8	8 1/8	11/32
56915	1/2	15	6 3/8	6 3/8	5 11/16	1/4	56921	15	96	14 5/8	12 3/8	11 13/32	11/32
56918	3/4	15	6 3/8	6 3/8	5 11/16	1/4	56922	20	136	17 1/8	14 1/8	12 11/32	17/32
53673	1	21	9 1/8	9 1/8	6 1/4	1/4	56924	25	150	17 1/8	14 1/8	13 1/32	17/32
53609	2	21	9 1/8	9 1/8	6 1/4	1/4	56927	30	155	17 1/8	14 1/8	13 1/32	17/32
53612	3	21	9 1/8	9 1/8	6 1/4	1/4	56930	35	154	17 1/8	14 1/8	12 3/32	17/32
53697	5	32	10 5/8	8 7/8	8 1/8	11/32							

FOR 250 VOLTS

56910	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53705	7 1/2	38	10 5/8	8 7/8	9 9/16	11/32
56913	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53709	10	45	14 5/8	8 7/8	8 1/8	11/32
56916	1/2	15	6 3/8	6 3/8	5 11/16	1/4	53712	15	90	14 5/8	12 3/8	8 27/32	11/32
56919	3/4	15	6 3/8	6 3/8	5 11/16	1/4	56923	20	96	14 5/8	12 3/8	11 13/32	11/32
53674	1	21	9 1/8	9 1/8	6 1/4	1/4	56925	25	96	14 5/8	12 3/8	11 13/32	11/32
53610	2	21	9 1/8	9 1/8	6 1/4	1/4	56928	30	132	17 1/8	14 1/8	12 11/32	17/32
53613	3	21	9 1/8	9 1/8	6 1/4	1/4	56931	35	130	17 1/8	14 1/8	13 1/32	17/32
53698	5	38	10 5/8	8 7/8	9 9/16	11/32	56934	50	225	17 1/8	18 5/8	13 1/32	17/32

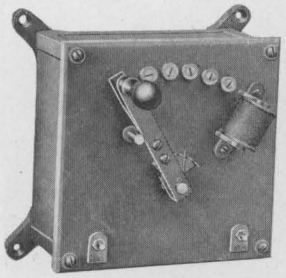
FOR 500 VOLTS

56911	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53706	7 1/2	38	10 5/8	8 7/8	9 9/16	11/32
56914	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53710	10	45	14 5/8	8 7/8	8 1/8	11/32
56917	1/2	15	6 3/8	6 3/8	5 11/16	1/4	53713	15	90	14 5/8	12 3/8	8 27/32	11/32
56920	3/4	15	6 3/8	6 3/8	5 11/16	1/4	53715	20	90	14 5/8	12 3/8	8 27/32	11/32
53675	1	21	9 1/8	9 1/8	6 1/4	1/4	56926	25	96	14 5/8	12 3/8	11 13/32	11/32
53611	2	21	9 1/8	9 1/8	6 1/4	1/4	56929	30	98	14 5/8	12 3/8	11 21/32	11/32
53614	3	21	9 1/8	9 1/8	6 1/4	1/4	56932	35	190	17 1/8	14 1/8	17 7/32	17/32
53699	5	32	10 5/8	8 7/8	8 1/8	11/32	56935	50	175	17 1/8	14 1/8	17 7/32	17/32

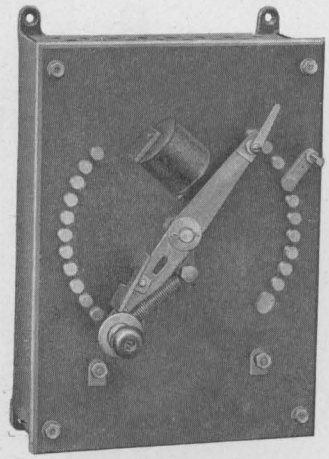
MOTOR STARTING RHEOSTATS

Type SA Rheostats with No-Voltage Release for Use with Series Wound Motors

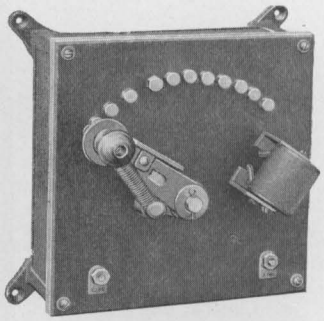
Not suitable for motors overloaded in starting or motors which will not come to full speed within thirty seconds.



1-8 to 3-4 H.P., 125, 250 and 500 Volts



7.5 and 10 H.P., 125, 250 and 500 Volts



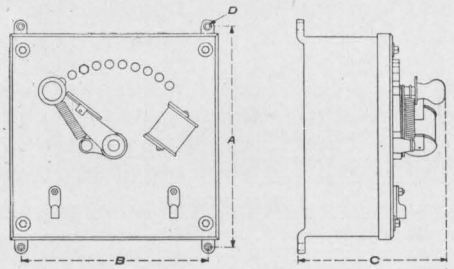
1 to 5 H.P., 125, 250 and 500 Volts

For heavy duty starting rheostats see page 177.

The resistance used in all of these rheostats is of the tube type. The 7.5 and 10 H.P. sizes are equipped with an auxiliary quick break device for protecting the first starting point against burning.

Prices on application.

Type SA Motor Starting Rheostats with No-Voltage Release for Use with Series Wound Motors



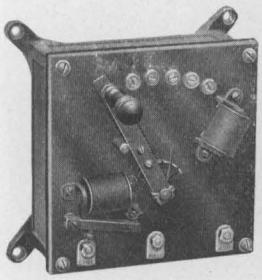
FOR 125 VOLTS

Cat. No.	H.P.	Approx. Shipp'g Wt., Lbs.	Dimensions in Inches A	B	C	D	Cat. No.	H.P.	Approx. Shipp'g Wt., Lbs.	Dimensions in Inches A	B	C	D
57043	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53518	2	21	9 1/8	9 1/8	6 1/4	1/4
57046	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53521	3	21	9 1/8	9 1/8	6 1/4	1/4
57049	1/2	15	6 3/8	6 3/8	5 11/16	1/4	53718	5	32	10 3/8	8 7/8	8 1/8	11/32
57052	3/4	15	6 3/8	6 3/8	5 11/16	1/4	53721	7 1/2	38	10 3/8	8 7/8	9 9/16	11/32
53299	1	21	9 1/8	9 1/8	6 1/4	1/4	53724	10	45	14 5/8	8 7/8	8 1/8	11/32
FOR 250 VOLTS													
57044	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53519	2	21	9 1/8	9 1/8	6 1/4	1/4
57047	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53522	3	21	9 1/8	9 1/8	6 1/4	1/4
57050	1/2	15	6 3/8	6 3/8	5 11/16	1/4	53719	5	38	10 3/8	8 7/8	9 9/16	11/32
57053	3/4	15	6 3/8	6 3/8	5 11/16	1/4	53722	7 1/2	38	10 3/8	8 7/8	9 9/16	11/32
53422	1	21	9 1/8	9 1/8	6 1/4	1/4	53725	10	45	14 5/8	8 7/8	8 1/8	11/32
FOR 500 VOLTS													
57045	1/8	15	6 3/8	6 3/8	5 11/16	1/4	53520	2	21	9 1/8	9 1/8	6 1/4	1/4
57048	1/4	15	6 3/8	6 3/8	5 11/16	1/4	53651	3	21	9 1/8	9 1/8	6 1/4	1/4
57051	1/2	15	6 3/8	6 3/8	5 11/16	1/4	53720	5	38	10 3/8	8 7/8	9 9/16	11/32
57054	3/4	15	6 3/8	6 3/8	5 11/16	1/4	53723	7 1/2	38	10 3/8	8 7/8	9 9/16	11/32
53517	1	21	9 1/8	9 1/8	6 1/4	1/4	53726	10	45	14 5/8	8 7/8	8 1/8	11/32

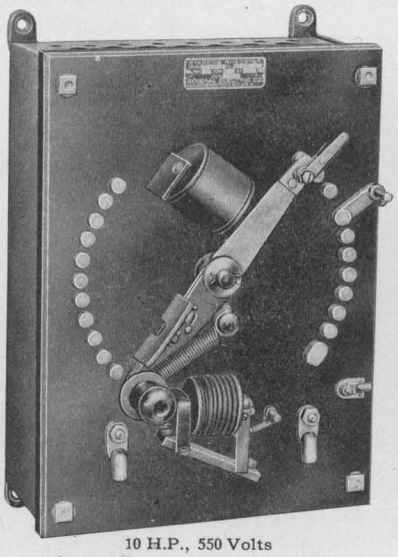
MOTOR STARTING RHEOSTATS

Type SO Rheostats with No-Voltage and Overload Release for Use with Shunt or Compound Wound Motors

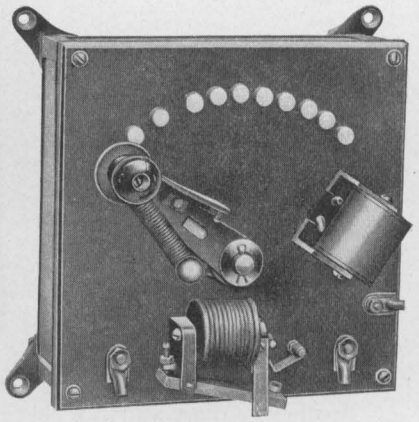
Not suitable for motors overloaded in starting or motors which will not come to full speed within thirty seconds



½ H.P., 550 Volts



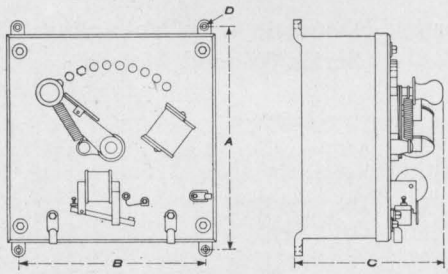
10 H.P., 550 Volts



5 H.P., 550 Volts

For heavy duty starting rheostats see page 177. Resistance in all of these rheostats is of the tube type. The 7.5 and 10 H.P. sizes are equipped with an auxiliary quick break device protecting the first starting point from burning Prices on application.

Dimensions



FOR 125 VOLTS

Cat. No.	H.P.	Approx. Shipping Weight, Lbs.	Dimensions in Inches A	B	C	D	Cat. No.	H.P.	Approx. Shipping Weight, Lbs.	Dimensions in Inches A	B	C	D
56976	½	15	6⅜	6⅜	5 11/16	¼	53278	2	21	9⅛	9⅛	6¼	¼
56979	¾	15	6⅜	6⅜	5 11/16	¼	53281	3	21	9⅛	9⅛	6¼	¼
56982	1	15	6⅜	6⅜	5 11/16	¼	53688	5	32	10⅜	8⅞	8¼	11/32
56985	2	15	6⅜	6⅜	5 11/16	¼	53691	7½	38	10⅜	8⅞	9 9/16	11/32
53664	1	21	9⅛	9⅛	6¼	¼	53694	10	45	14⅜	8⅞	8⅛	11/32

FOR 250 VOLTS

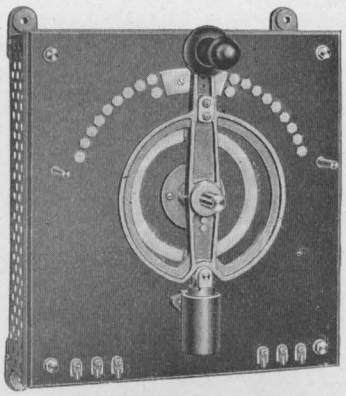
56977	½	15	6⅜	6⅜	5 11/16	¼	53279	2	21	9⅛	9⅛	6¼	¼
56980	¾	15	6⅜	6⅜	5 11/16	¼	53282	3	21	9⅛	9⅛	6¼	¼
56983	1	15	6⅜	6⅜	5 11/16	¼	53689	5	38	10⅜	8⅞	9 9/16	11/32
56986	2	15	6⅜	6⅜	5 11/16	¼	53692	7½	38	10⅜	8⅞	9 9/16	11/32
53665	1	21	9⅛	9⅛	6¼	¼	53695	10	45	14⅜	8⅞	8⅛	11/32

FOR 500 VOLTS

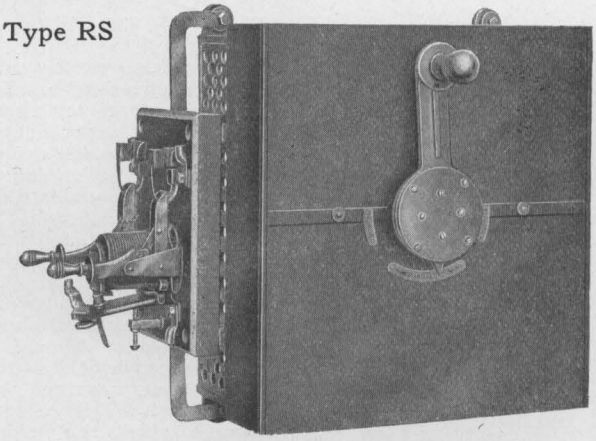
56978	½	15	6⅜	6⅜	5 11/16	¼	53280	2	21	9⅛	9⅛	6¼	¼
56981	¾	15	6⅜	6⅜	5 11/16	¼	53283	3	21	9⅛	9⅛	6¼	¼
56984	1	15	6⅜	6⅜	5 11/16	¼	53690	5	38	10⅜	8⅞	8¼	11/32
56987	2	15	6⅜	6⅜	5 11/16	¼	53693	7½	38	10⅜	8⅞	9 9/16	11/32
53666	1	21	9⅛	9⅛	6¼	¼	53696	10	45	14⅜	8⅞	8⅛	11/32

MOTOR STARTING RHEOSTATS

Type RS



3 H.P., 220 Volts



ENCLOSED DIAL CONTROLLER
Equipped with Type C, Form G, Circuit Breaker

The above illustrations show the Type RS Motor Starting Rheostats which are designed for starting reversible shunt or compound wound constant speed motors of capacities up to and including 15 H.P. 115, 230 and 500 volts.

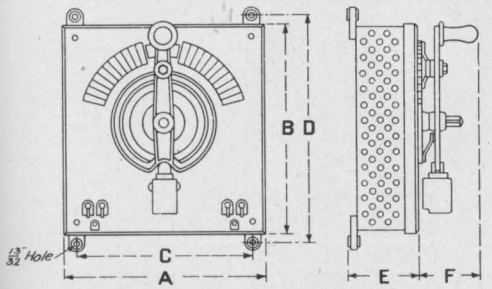
The resistance, which is designed for one minute duty, consists of enclosed cards, and is contained within the rheostat, except in the 12½ H.P. and 15 H.P. sizes, all voltages, in which external grids are used for 115 and 230 volts and enclosed cards for 500 volts.

On all sizes, a spring operated centering device is placed on the front of the rheostat, which breaks the last contact quickly when the motor is being shut down. On rheostats of 4 H.P. capacity and above, 115 and 230 volts, and those of 2 H.P. and above, 500 volts, a magnetic blowout coil is connected back of the slate base. The quick break action of the centering device on small rheostats, and the quick break action in combination with the magnetic blowout on rheostats of larger capacities serves to extinguish the arc on the first contact and prevent burning of the contacts or switch. The centering device also holds the switch in the off position and prevents the operator from reversing the motor too quickly.

A cover can be furnished for enclosing the front and protecting the live parts from dust, dirt and mechanical injury. A key-way is cut in the shaft for attaching an insulated sprocket wheel or gear when desired.

Type RS Rheostats are not equipped with overload or low-voltage devices, and for the best protection of the motors this Company recommends the installation of the General Electric Circuit Breaker with low-voltage release attachment. Supports can be supplied for mounting the circuit breaker on the side of the box as shown in the accompanying illustration.

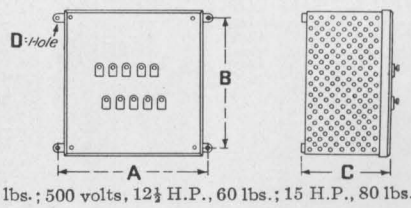
DIMENSIONS OF TYPE RS REVERSING MOTOR STARTING RHEOSTATS 115, 230 AND 500 VOLTS



Cat. No. Front only	H.P.	Volts	Type	Approx. Shipping Wt., Lbs.	A	B	C	D	E	F
57077	Up to 1	115, 230 and 500	RS	50	10	10	10⅜	8⅜	4½	4 7/16
57078	2 and 3	115 and 230	"	70	16	17	14½	18½	5½	4 13/16
57079	4 to 15	115 and 230	"	80	16	17	14½	18½	5½	4 13/16
42365	2 to 15	500	"	80	16	17	14⅜	18⅜	5½	5 1/16

DIMENSIONS OF STARTING RESISTANCE FOR ABOVE

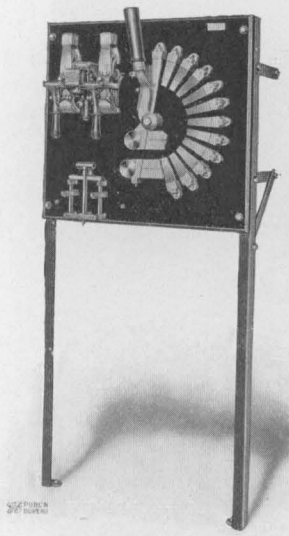
115 Volts					230 Volts					500 Volts					Weight
H.P.	A	B	C	D	H.P.	A	B	C	D	H.P.	A	B	C	D	
12½	14⅛	17⅛	7⅞	17/32	12½	14⅛	17⅛	7⅞	17/32	12½	12⅜	8⅜	9	5/16	100 lb.
15	14⅛	17⅛	7⅞	17/32	15	14⅛	17⅛	7⅞	17/32	15	10⅜	8⅜	11¼	5/16	100 lb.



Approximate shipping weight 115 and 230 volt resistance, 12½ and 15 H.P., 100 lbs.; 500 volts, 12½ H.P., 60 lbs.; 15 H.P., 80 lbs.

MOTOR STARTING RHEOSTATS

Type SB Panels for Large Motors

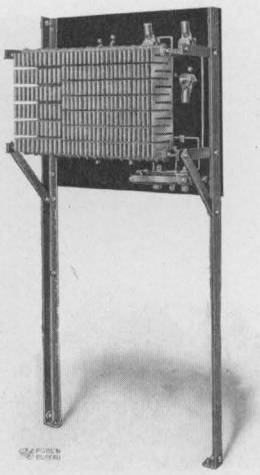


FRONT OF PANEL

The starting switch on these panels is interlocked with a double-pole, carbon break circuit breaker equipped with low-voltage release. The interlocking device renders impossible the closing of the circuit breaker except when the switch is in the starting position and the armature all cut in.

Panels of capacities above 50 H.P., 110 volts, and 125 H.P., 220 and 550 volts, are equipped with a triple-blade, combination switch for closing the field circuit. The central blade is in series with a low voltage coil on the circuit breaker, and should the operator attempt to open the field when the motor is running the action will trip the circuit breaker. Should the circuit breaker be closed while the field switch is open, it will immediately open, inasmuch as the no-voltage coil is not excited. The outer blades of the switch through which the field is closed and opened come in contact with the discharge clips which cut in a resistance through which the field is discharged when the field switch is opened.

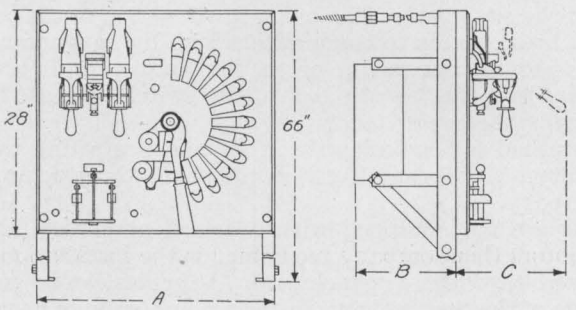
In the smaller sizes of panels the field switch is omitted and the field circuit is made together with the armature circuit. When the circuit breaker is opened the field discharges through the armature.



BACK OF PANEL

The starting resistance used with Type SB panels is of iron grid type, mounted directly back of the panel, and is designed with sufficient current carrying capacity for 1-1/2 to 2 minutes starting service.

Dimensions



110 VOLTS

Cat. No.	H.P.	Approx. Shipping Wgt., Lbs.	Dimensions A	B	C
45241	40				
45242	50				
45243	60	675	30	12¾	12¾
45246	75	700	32	12¾	14¼
45249	85				
57291	100	700	32	12¾	14¼
57294	125	700	32	12¾	14¼
57297	160	750	32	12¾	14¼

220 VOLTS

Cat. No.	H.P.	Approx. Shipping Wgt., Lbs.	Dimensions A	B	C
45244	60				
45247	75				
45250	85				
45252	100	675	30	12¾	12¾
45254	125	675	30	12¾	12¾
57298	160	700	32	12¾	14¼
57710	200	700	32	12¾	14¼
57714	250	725	32	12¾	14¼
57716	300	750	32	12¾	14¼
57749	350	800	32	12¾	14¼
57799	400	1100	36	12¾	18¾

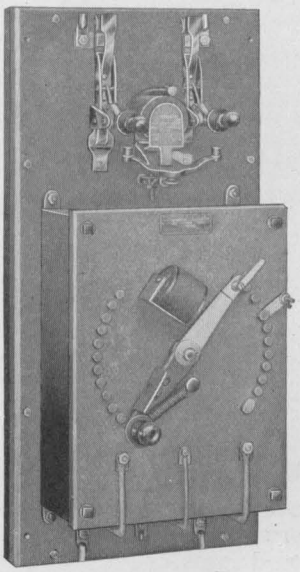
550 VOLTS

Cat. No.	H.P.	Approx. Shipping Wgt., Lbs.	Dimensions A	B	C
45245	60				
45248	75				
45251	85				
45253	100	600	32	11¾	11⅛
45255	125	650	32	11¾	11⅛
57299	160	700	36	11¾	13
57713	200	725	36	12¾	13
57715	250	725	36	12¾	13
57717	300	725	36	12¾	13
57798	350	750	32	12¾	14¾
57929	400	750	32	12¾	14¾

MOTOR STARTING RHEOSTATS

Type AA Panels for Use with Shunt or Compound Wound Motors

Not suitable for motors overloaded in starting or motors which will not come to full speed within thirty seconds.

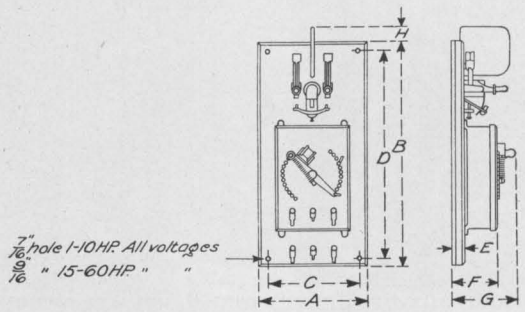


TYPE AA PANEL

For heavy duty service see Page 177.

The accompanying illustration shows the general appearance of Type AA Motor Starting Rheostat Panels which consist of a standard starting rheostat and double-pole circuit breaker mounted on a slate base.

Prices on application.



Dimensions

125 VOLTS

Cat. No.	H.P.	Approx. Ship. Wt. Lbs.	A	B	C	D	E	F	G
57954	1	124	12	22	10¾	18½	2	5⅜	8
57955	2	124	12	22	10¾	18½	2	5⅜	8
57956	3	124	12	22	10¾	18½	2	5⅜	8
57957	5	150	12	22	10¾	18½	2	7	11 7/16
57958	7½	170	12	22	10¾	18½	2	8⅜	11 7/16
57959	10	180	12	26	10¾	22½	2	7	9 3/4
57960	15	275	16	28	14½	24½	2½	8⅞	12 3/16
57961	20	400	18	32	16½	28½	3	10⅞	15
57962	25	400	18	32	16½	28½	3	10⅞	15

250 VOLTS

57963	1	124	12	22	10¾	18½	2	5⅜	8
57964	2	124	12	22	10¾	18½	2	5⅜	8
57965	3	124	12	22	10¾	18½	2	5⅜	8
57966	5	170	12	22	10¾	18½	2	8⅜	11 7/16
57967	7½	170	12	22	10¾	18½	2	8⅜	11 7/16
57968	10	175	12	26	10¾	22½	2	7	9 3/4
57969	15	250	16	26	14½	22½	2½	8⅞	12 3/16
57970	20	270	16	28	14½	24½	2½	8⅞	12 3/16
57971	25	270	16	28	14½	24½	2½	8⅞	12 3/16
57972	30	425	18	30	16½	26½	3	10⅞	15
57973	35	450	18	32	16½	28½	3	10⅞	15
57974	50	500	22	32	20½	28½	3	10⅞	15⅝

500 VOLTS

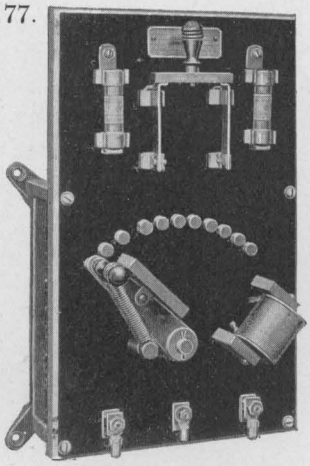
Cat. No.	H.P.	Approx. Ship.Wt. Lbs.	A	B	C	D	E	F	G	H
57976	1	124	12	22	10¾	18½	2	5⅜	8	1⅜
57977	2	124	12	22	10¾	18½	2	5⅜	8	1⅜
57978	3	124	12	22	10¾	18½	2	5⅜	8	1⅜
57979	5	170	12	24	10¾	20½	2	7	9 3/4	1⅜
57980	7½	170	12	24	10¾	20½	2	8⅜	11 7/16	1⅜
57981	10	175	12	28	10¾	24½	2	7	9 3/4	1⅜
57982	15	250	16	28	14½	24½	2½	8⅞	12 3/16	1⅜
57983	20	270	16	28	14½	24½	2½	8⅞	12 3/16	1⅜
57984	25	270	16	28	14½	24½	2½	9⅜	12 3/16	1⅜
57985	30	385	16	28	14½	24½	2½	9⅜	12 3/16	1⅜
57986	35	500	18	32	16½	28½	3	16	20⅛	1⅜
57987	50	500	18	32	16½	28½	3	16	20⅛	1⅜

MOTOR STARTING RHEOSTATS

Type UP Panel to be Used with Shunt or Compound Wound Motors

Not suitable for motors overloaded in starting or motors which will not come to full speed within thirty seconds.

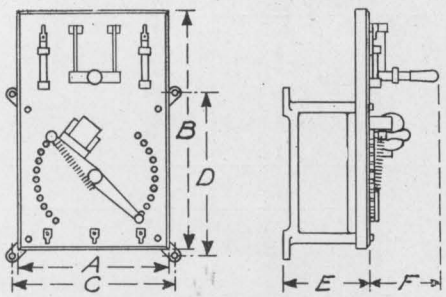
For heavy duty service see Page 177.



TYPE UP PANEL

The accompanying illustration shows the general appearance of the Type UP motor starting panel. This panel consists of a standard Type SA motor starting rheostat with an extended slate top upon which is mounted a line switch and enclosed fuses.

Prices on application.



125 VOLTS

Cat. No.	H.P.	Approx. Sh. Wt. Lbs.	A	B	C	D	E	F
54720	$\frac{1}{4}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54722	$\frac{1}{2}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54724	$\frac{3}{4}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54726	1		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54728	2		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54730	3		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54732	5		10	16	$8\frac{7}{8}$	$10\frac{5}{8}$	$4\frac{1}{2}$	$2\frac{3}{4}$
54734	$7\frac{1}{2}$		10	16	$8\frac{7}{8}$	$10\frac{5}{8}$	$5\frac{13}{16}$	$5\frac{1}{4}$
54736	10		10	23	$8\frac{7}{8}$	$14\frac{5}{8}$	$4\frac{1}{2}$	$6\frac{5}{8}$
54738	15		14	23	$12\frac{3}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$6\frac{5}{8}$
56333	20		14	26	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$6\frac{5}{8}$

250 VOLTS

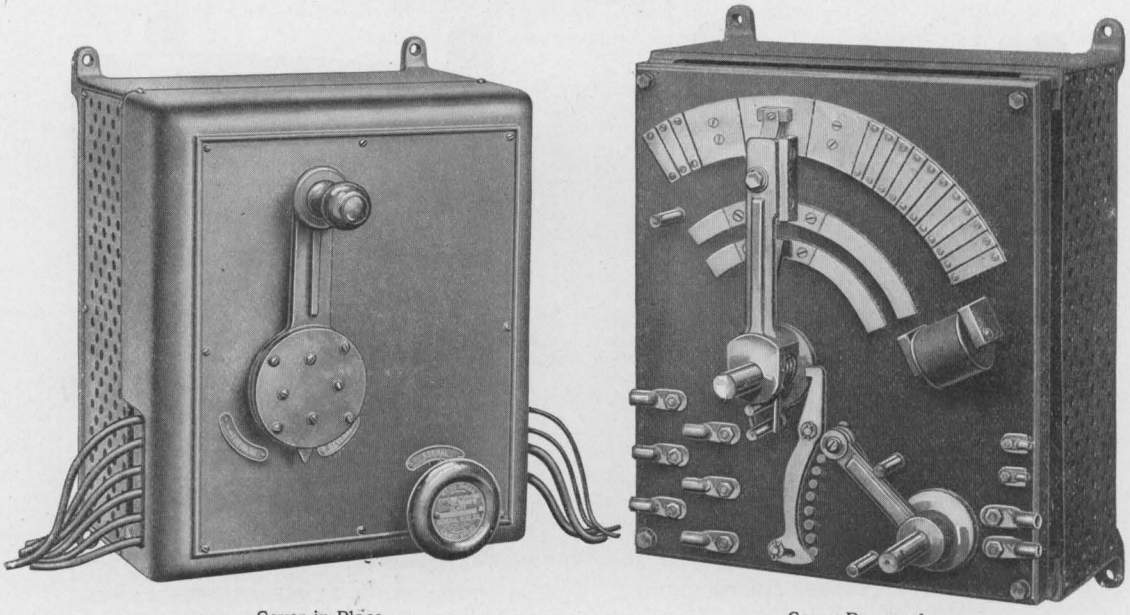
Cat. No.	H.P.	Appr'x. Sh. Wt. Lbs.	A	B	C	D	E	F
54721	$\frac{1}{4}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54723	$\frac{1}{2}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54725	$\frac{3}{4}$		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54727	1		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54729	2		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54731	3		$8\frac{3}{4}$	$14\frac{1}{2}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$2\frac{3}{4}$
54733	5		10	16	$8\frac{7}{8}$	$10\frac{5}{8}$	$4\frac{1}{2}$	$2\frac{3}{4}$
54735	$7\frac{1}{2}$		10	16	$8\frac{7}{8}$	$10\frac{5}{8}$	$5\frac{13}{16}$	$2\frac{3}{4}$
54737	10		10	23	$8\frac{7}{8}$	$14\frac{5}{8}$	$4\frac{1}{2}$	$2\frac{3}{4}$
54739	15		14	$20\frac{1}{2}$	$12\frac{3}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$5\frac{1}{4}$
56338	20		14	23	$12\frac{3}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$5\frac{1}{4}$

500 VOLTS

Cat. No.	H.P.	Appr'x. Sh. Wt. Lbs.	A	B	C	D	E	F
56467	$\frac{1}{4}$		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56468	$\frac{1}{2}$		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56469	$\frac{3}{4}$		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56470	1		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56471	2		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56472	3		$8\frac{3}{4}$	18	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$5\frac{1}{4}$
56473	5		10	18	$8\frac{7}{8}$	$10\frac{5}{8}$	5	$5\frac{1}{4}$
56474	$7\frac{1}{2}$		10	$20\frac{1}{2}$	$8\frac{7}{8}$	$10\frac{5}{8}$	$6\frac{7}{16}$	$5\frac{1}{4}$
56475	10		10	23	$8\frac{7}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$5\frac{1}{4}$
56476	15		14	23	$12\frac{3}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$5\frac{1}{4}$
57076	20		14	23	$12\frac{3}{8}$	$14\frac{5}{8}$	$6\frac{11}{16}$	$5\frac{1}{4}$

SPEED CONTROLLING RHEOSTATS

Type PP Rheostats with No-Voltage Release, for Use with Shunt or Compound Wound Motors



Cover in Place — Cover Removed

TYPE PP, FORM E, RHEOSTATS

These Rheostats are designed particularly for controlling printing press motors, machine tools, or any motor equipment where the full reversing feature is not necessary. They are, however, provided with three contacts for starting the motor slowly in the reverse direction.

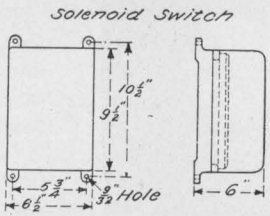
The Form A Controlling Rheostat is for use in varying the speed of the motor both above and below the normal.

The Form E Rheostat is for the purpose of varying the speed of the motor above its normal rating only.

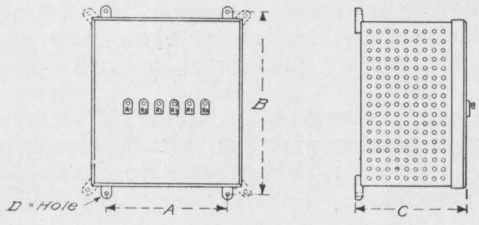
For further information reference should be made to the bulletin on this subject.

Prices on application.

DIMENSIONS OF TYPE PP CONTROLLER FRONT AND SOLENOID SWITCH



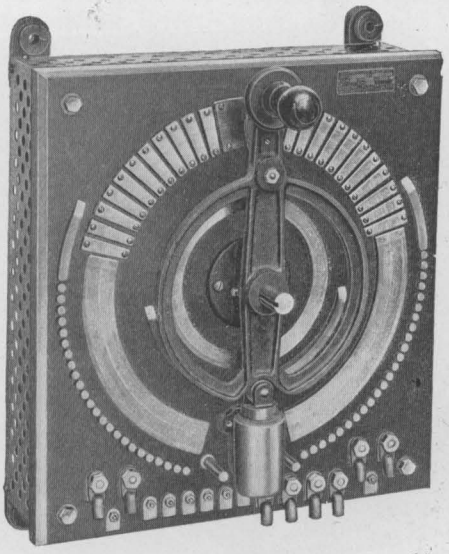
DIMENSIONS OF ARMATURE REGULATING RESISTANCES FOR TYPE PP DIAL CONTROLLERS



115 Volts					230 Volts					500 Volts				
H.P.	A	B	C	D	H.P.	A	B	C	D	H.P.	A	B	C	D
2	12 3/8	14 5/8	8 5/16	11/32	2	12 3/8	14 5/8	8 5/16	11/32	2	12 3/8	14 5/8	8 5/16	11/32
3	12 3/8	14 5/8	11 5/16	11/32	3	12 3/8	14 5/8	11 5/16	11/32	3	12 3/8	14 5/8	11 5/16	11/32
4	18 5/8	17 1/8	13	17/32	4	18 5/8	17 1/8	13	17/32	4	16 5/8	8 3/8	9	9/16
5	18 5/8	17 1/8	13	17/32	5	18 5/8	17 1/8	13	17/32	5	16 5/8	8 3/8	11 1/4	9/16
7½	18 5/8	20 1/8	17	17/32	7½	18 5/8	17 1/8	21	17/32	7½	16 5/8	8 3/8	13 1/2	9/16
10	18 5/8	20 1/8	17	17/32	10	18 5/8	17 1/8	26 1/8	17/32	10	18 5/8	7 1/8	26 1/8	17/32

SPEED CONTROLLING RHEOSTATS

Types RSF and SF Rheostats for Use with Variable Speed Shunt or Compound Wound Motors

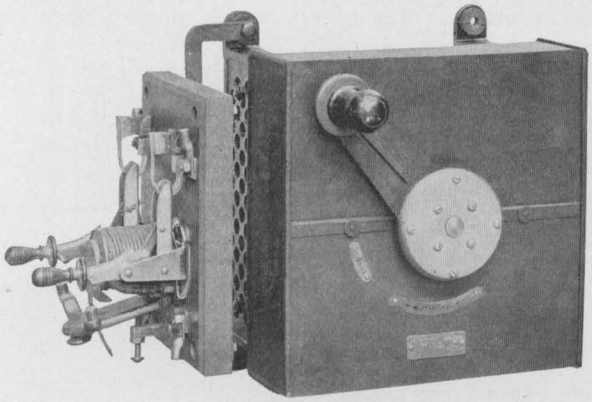


TYPE RSF FULL REVERSE CONTROLLING RHEOSTAT, 15 H.P., 220 VOLTS



TYPE SF NON-REVERSE CONTROLLING RHEOSTAT, 15 H.P., 220 VOLTS

The accompanying illustrations show the general appearance of Types RSF and SF Speed Controlling Rheostats which are designed for starting shunt or compound wound motors in either direction to give 2:1, 3:1 and 4:1 variation in speed by field control. All sizes, excepting those of $\frac{1}{4}$ to 3 H.P. inclusive, are self-contained, the resistance being within the controller. On sizes of 4 H.P. and above, 115 and 230 volts, 2 H.P. and above, 500 volts, a magnetic blowout coil is connected back of the controller front for protecting the first starting points from burning. The armature resistance is designed for starting service only, and all of its contacts are renewable. A spring operated centering device is mounted on the controller for holding the switch in the off position.



TYPE SF CONTROLLING RHEOSTAT WITH COVER AND CIRCUIT BREAKER

The accompanying illustration shows the general appearance of Type SF speed controlling rheostats which are designed for starting shunt or compound wound motors in one direction only and to give a variation in speed of 2:1, 3:1 and 4:1 in one direction only by field control. The field resistance is self-contained within the controller. The armature resistance is external except in sizes from $\frac{1}{4}$ to 1 H.P., inclusive, is designed for starting service only, and all of its contacts are renewable. The controlling rheostats are provided with an auxiliary quick break device for protecting the first point from burning.

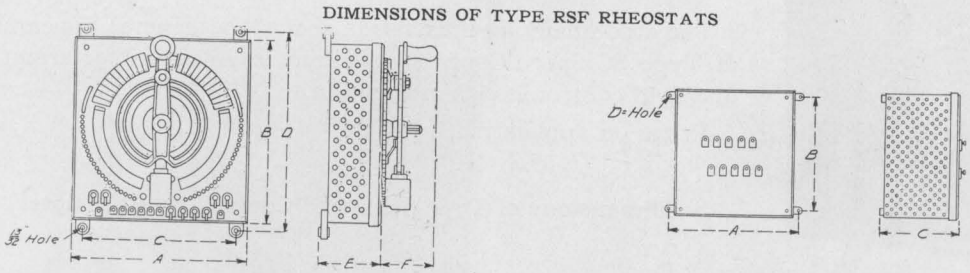
In order to protect the motors from heavy or injurious overloads or failure of voltage the installation of the General Electric Company's circuit breaker with low voltage release in connection with the Type SF and RSF controlling rheostats is advisable. An insulated sprocket wheel or gear and enclosing cover can be furnished.

Prices on application.

SPEED CONTROLLING RHEOSTATS

Types RSF and SF Rheostats for Use with Variable Speed Shunt or Compound Wound Motors

DIMENSIONS OF TYPE RSF RHEOSTATS

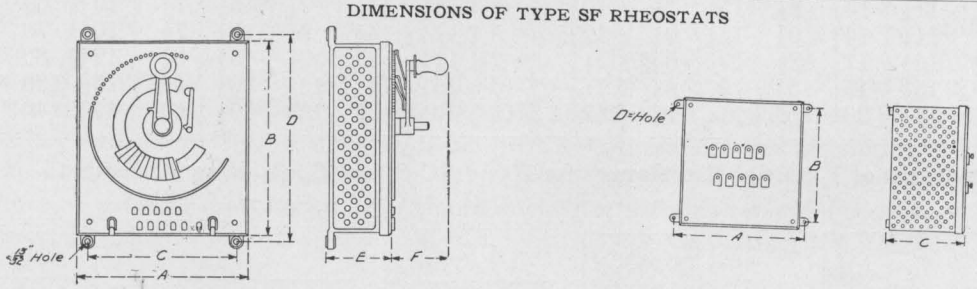


Cat. No. Front Only	H.P.	Volts	Type	Speed Variation	Full Divisions	A	B	C	D	E	F
57080	Up to 1	115, 230 & 500	RSF	2, 3 & 4 to 1	18	12	12	$10\frac{1}{8}$	$13\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{7}{16}$
57081	2 to 3	115 to 230	"	2 to 1	12	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{13}{16}$
42366	2 " 3	500	"	2 " 1	12	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$5\frac{9}{16}$
57082	4 " 15	115 to 230	"	2 " 1	12	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{13}{16}$
42367	4 " 15	500	"	2 " 1	12	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$5\frac{9}{16}$
57083	2 " 3	115 to 230	"	3 & 4 to 1	24	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{13}{16}$
42368	2 " 3	500	"	3 " 4 " 1	24	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$5\frac{9}{16}$
57084	4 " 15	115 to 230	"	3 " 4 " 1	24	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{13}{16}$
42369	4 " 15	500	"	3 " 4 " 1	24	16	17	$14\frac{1}{8}$	$18\frac{1}{8}$	$5\frac{1}{2}$	$5\frac{9}{16}$

STARTING RESISTANCES FOR TYPE RSF RHEOSTATS

115 Volts					230 Volts					500 Volts				
H.P.	A	B	C	D	H.P.	A	B	C	D	H.P.	A	B	C	D
4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$
$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$
10	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	10	$10\frac{5}{8}$	$8\frac{3}{8}$	9	$\frac{5}{16}$	10	$10\frac{5}{8}$	$8\frac{3}{8}$	9	$\frac{5}{16}$
$12\frac{1}{2}$	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	$12\frac{1}{2}$	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	$12\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	9	$\frac{5}{16}$
15	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	15	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	15	$10\frac{5}{8}$	$8\frac{3}{8}$	$11\frac{1}{4}$	$\frac{5}{16}$

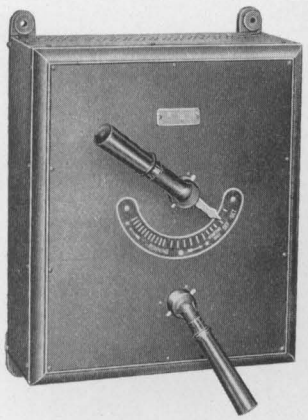
DIMENSIONS OF TYPE SF RHEOSTATS



Cat. No. Front Only	H.P.	Type	Speed Variations	Field Divisions	A	B	C	D	E	F
57085	Up to 1	S F	2, 3 and 4 to 1	18	12	12	$10\frac{1}{8}$	$13\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{5}{8}$
57086	2 to 5	"	2 to 1	12	12	12	$10\frac{1}{8}$	$13\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{5}{8}$
57087	6 " 15	"	2 " 1	12	14	16	$12\frac{1}{8}$	$17\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{5}{8}$
57088	2 " 5	"	3 and 4 to 1	24	12	12	$10\frac{1}{8}$	$13\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{5}{8}$
57089	6 " 15	"	3 " 4 " 1	24	14	16	$12\frac{1}{8}$	$17\frac{1}{8}$	$5\frac{1}{2}$	$4\frac{5}{8}$

STARTING RESISTANCES FOR TYPE SF RHEOSTATS

115 Volts					230 Volts					500 Volts				
H.P.	A	B	C	D	H.P.	A	B	C	D	H.P.	A	B	C	D
2	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$	2	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$	2	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$
3	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$	3	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$	3	$10\frac{5}{8}$	$8\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{16}$
4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	4 & 5	$10\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$
$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$	$7\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{3}{8}$	$6\frac{3}{4}$	$\frac{5}{16}$
10	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	10	$10\frac{5}{8}$	$8\frac{3}{8}$	$8\frac{1}{4}$	$\frac{5}{16}$	10	$10\frac{5}{8}$	$8\frac{3}{8}$	9	$\frac{5}{16}$
$12\frac{1}{2}$	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	$12\frac{1}{2}$	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	$12\frac{1}{2}$	$12\frac{5}{8}$	$8\frac{1}{8}$	9	$\frac{5}{16}$
15	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	15	$14\frac{1}{8}$	$17\frac{1}{8}$	$7\frac{7}{8}$	$\frac{17}{32}$	15	$10\frac{5}{8}$	$8\frac{3}{8}$	$11\frac{1}{4}$	$\frac{5}{16}$



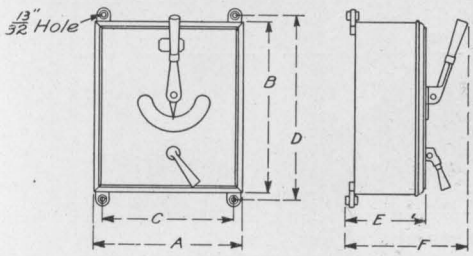
SPEED CONTROLLING RHEOSTATS

Type SC Rheostats with No-Voltage and Overload Release for Use with Shunt or Compound Wound Motors

The accompanying illustration shows the general appearance of Type SC Speed Controlling Rheostats designed for armature and field control in either direction.

Prices on application.

Dimensions of Type SC Speed Controlling Rheostats



115 VOLTS

H.P.	A	B	C	D	E	F	Approx. Shipping Weight
1	11 1/8	14 1/8	9 7/8	15 1/4	9 1/4	12 11/16	80 lbs.
2	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16	60 "
3	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8	120 "
5	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8	120 "
7 1/2	17 1/8	20 1/8	15 5/8	21 5/8	7 3/4	12 1/4	180 "
10	17 1/8	20 1/8	15 5/8	21 5/8	7 3/4	12 1/4	180 "
15	17 1/8	20 1/8	15 5/8	21 5/8	7 3/4	12 1/4	190 "

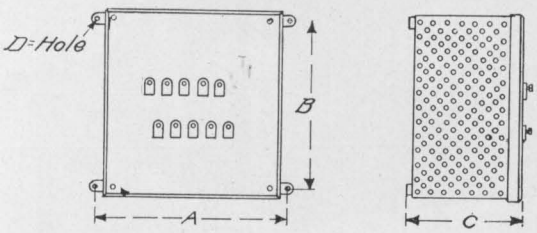
230 VOLTS

Approx. Shipping Weight	H.P.	A	B	C	D	E	F
80 lbs	1	11 1/8	14 1/8	9 7/8	15 1/4	9 1/4	12 11/16
60 "	2	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16
60 "	3	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16
80 "	5	11 1/8	14 1/8	9 7/8	15 1/4	9 1/4	12 11/16
120 "	7 1/2	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8
130 "	10	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8
190 "	15	17 1/8	20 1/8	15 5/8	21 5/8	7 3/4	12 1/4

500 VOLTS

H.P.	A	B	C	D	E	F	Approx. Shipping Weight
1	11 1/8	14 1/8	9 7/8	15 1/4	9 1/4	12 11/16	80 lbs.
2	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16	60 "
3	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16	60 "
5	11 1/8	14 1/8	9 7/8	15 1/4	7 1/4	10 11/16	70 "
7 1/2	11 1/8	14 1/8	9 7/8	15 1/4	9 1/4	12 11/16	80 "
10	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8	130 "
15	15 1/8	17 5/8	13 5/8	19 1/8	6 13/16	11 7/8	140 "

Dimensions of External Resistances for Type SC Speed Controlling Rheostats



115 VOLTS

H.P.	A	B	C	D	Approx. Shipping Weight
2	12 5/8	8 3/8	6 3/4	5/16	40 lbs.
3	18 5/8	17 1/8	7 7/8	17/32	140 "
5	14 1/8	17 1/8	13	17/32	190 "
7 1/2	14 1/8	20 1/8	17	17/32	260 "
10	14 1/8	20 1/8	17	17/32	260 "
15	18 5/8	20 1/8	27	17/32	440 "

230 VOLTS

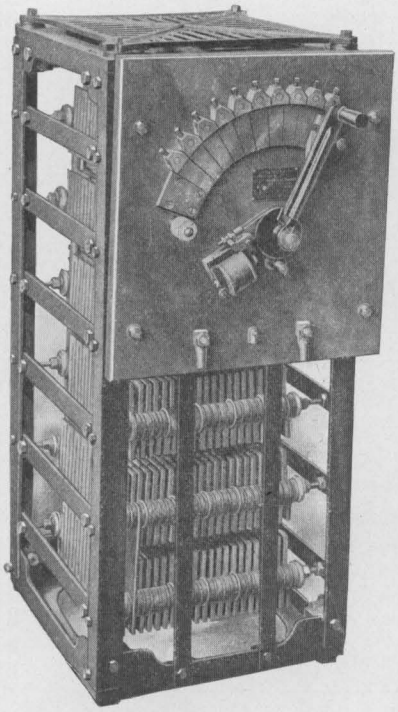
Net Wt.	H.P.	A	B	C	D
60 lbs.	2	16 5/8	8 3/8	6 3/4	5/16
60 "	3	16 5/8	8 3/8	6 3/4	5/16
190 "	5	18 5/8	17 1/8	13	17/32
190 "	7 1/2	18 5/8	17 1/8	13	17/32
200 "	10	18 5/8	17 1/8	21	17/32
440 "	15	18 5/8	20 1/8	27	17/32

500 VOLTS

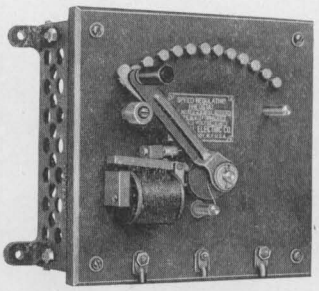
H.P.	A	B	C	D	Approx. Ship. Weight
2	12 5/8	8 3/8	6 3/4	5/16	40 lbs.
3	10 5/8	8 3/8	11 1/4	5/16	60 "
5	14 5/8	8 3/8	11 1/4	5/16	70 "
7 1/2	16 5/8	8 3/8	13 1/2	5/16	100 "
10	18 5/8	17 1/8	26 1/8	17/32	350 "
15	18 5/8	17 1/8	21	17/32	280 "

SPEED CONTROLLING RHEOSTATS

Type RA Rheostats with No-Voltage Release for Use with Shunt or Compound Wound Motors



15 H.P., 110 VOLTS



½ H.P., 500 VOLTS

The general appearance of the Type RA Speed Controlling Rheostats is shown in the accompanying illustrations. These rheostats are designed for regulating the speed of motors by armature control. When ordering these Speed Controlling Rheostats, state whether they are to be used with motors when the energy required varies directly with the load, that is, motors driving machine tools, reciprocating pumps, etc., or with motors when the energy required does not vary directly with the load, that is, motors driving ventilating fans, centrifugal pumps, etc.

SPEED CONTROLLING RHEOSTATS

Type RA Rheostats with No-Voltage Release for Use with Shunt or Compound Wound Motors

Dimensions

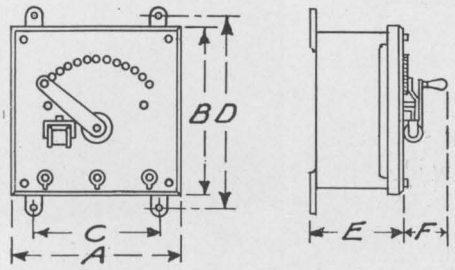


Fig. 1

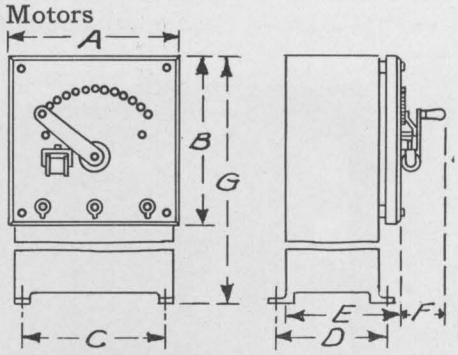
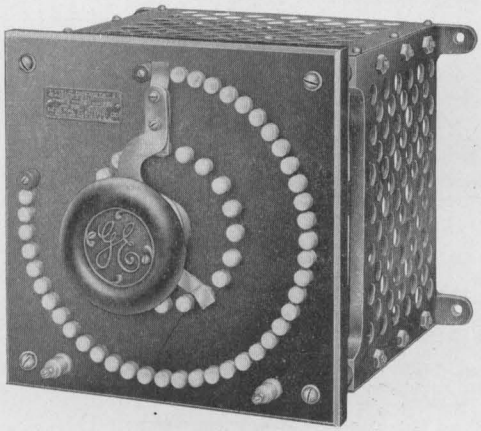


Fig. 2

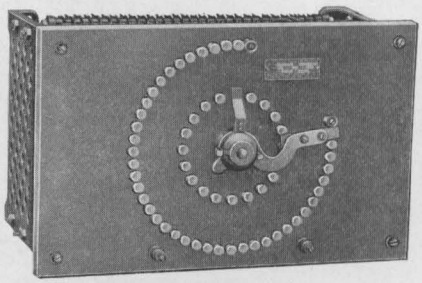
Cat. No.	H.P.	Approx. Ship. Weight, Lbs.	Fig.	A	B	C	D	E	F	G
					125 VOLTS					
57193	$\frac{1}{8}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57194	$\frac{1}{4}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57195	$\frac{1}{2}$	33	1	10	10	$8\frac{7}{8}$	$10\frac{5}{8}$	$4\frac{13}{16}$	$3\frac{5}{16}$	
57196	$\frac{3}{4}$	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$3\frac{5}{16}$	$3\frac{5}{16}$	
57197	1	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$5\frac{5}{16}$	$3\frac{5}{16}$	
57198	2	96	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$8\frac{5}{16}$	$3\frac{5}{16}$	
57199	3	132	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$11\frac{5}{16}$	$3\frac{5}{16}$	
57240	5	245	1	$18\frac{1}{2}$	17	$18\frac{5}{8}$	$17\frac{1}{8}$	13	$3\frac{15}{16}$	
57241	$7\frac{1}{2}$	340	1	$18\frac{1}{2}$	20	$18\frac{5}{8}$	$20\frac{1}{8}$	17	$3\frac{15}{16}$	
57242	10	380	1	$18\frac{1}{2}$	20	$18\frac{5}{8}$	$20\frac{1}{8}$	17	$3\frac{15}{16}$	
57243	15	475	2	$18\frac{1}{2}$	20	$18\frac{5}{8}$	$20\frac{1}{8}$	$21\frac{1}{2}$	$3\frac{15}{16}$	26
57244	20	700	2	$18\frac{1}{2}$	20	Not	drilled	$21\frac{1}{2}$	$5\frac{3}{8}$	$40\frac{1}{4}$
					250 VOLTS					
57245	$\frac{1}{8}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57246	$\frac{1}{4}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57247	$\frac{1}{2}$	33	1	10	10	$8\frac{7}{8}$	$10\frac{5}{8}$	$4\frac{13}{16}$	$3\frac{5}{16}$	
57248	$\frac{3}{4}$	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$5\frac{5}{16}$	$3\frac{5}{16}$	
57249	1	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$5\frac{5}{16}$	$3\frac{5}{16}$	
57270	2	116	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$8\frac{5}{16}$	$3\frac{5}{16}$	
57271	3	132	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$11\frac{5}{16}$	$3\frac{5}{16}$	
57272	5	234	1	$18\frac{1}{2}$	17	$18\frac{5}{8}$	$17\frac{1}{8}$	13	$3\frac{5}{16}$	
57273	$7\frac{1}{2}$	350	2	$18\frac{1}{2}$	17	$18\frac{5}{8}$	$17\frac{1}{8}$	$18\frac{1}{2}$	$3\frac{5}{16}$	20
57274	10	450	2	$18\frac{1}{2}$	17	$18\frac{5}{8}$	$17\frac{1}{8}$	$18\frac{1}{2}$	$3\frac{15}{16}$	$25\frac{1}{8}$
57275	15	475	2	$18\frac{1}{2}$	20	$18\frac{5}{8}$	$20\frac{1}{8}$	$21\frac{1}{2}$	$3\frac{15}{16}$	26
57276	20	700	2	$18\frac{1}{2}$	20	Not	drilled	$21\frac{1}{2}$	$3\frac{15}{16}$	$40\frac{1}{4}$
					500 VOLTS					
57277	$\frac{1}{8}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57278	$\frac{1}{4}$	21	1	$8\frac{3}{4}$	$8\frac{3}{4}$	$9\frac{1}{8}$	$9\frac{1}{8}$	$3\frac{5}{8}$	$3\frac{5}{16}$	
57279	$\frac{1}{2}$	33	1	10	10	$8\frac{7}{8}$	$10\frac{5}{8}$	$4\frac{13}{16}$	$3\frac{5}{16}$	
57280	$\frac{3}{4}$	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$5\frac{5}{16}$	$3\frac{5}{16}$	
57281	1	90	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$5\frac{5}{16}$	$3\frac{5}{16}$	
57282	2	114	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$8\frac{5}{16}$	$3\frac{5}{16}$	
57283	3	132	1	14	14	$12\frac{3}{8}$	$14\frac{5}{8}$	$11\frac{5}{16}$	$3\frac{5}{16}$	
57284	5	145	1	16	10	$16\frac{5}{8}$	$8\frac{3}{8}$	$11\frac{1}{4}$	$3\frac{5}{16}$	
57285	$7\frac{1}{2}$	185	1	16	10	$16\frac{5}{8}$	$8\frac{3}{8}$	$13\frac{1}{2}$	$3\frac{5}{16}$	
57286	10	400	2	$18\frac{1}{2}$	17	$18\frac{5}{8}$	$17\frac{1}{8}$	$18\frac{1}{2}$	$3\frac{5}{16}$	$25\frac{1}{8}$
57287	15	500	2	$18\frac{1}{2}$	17	Not	drilled	$18\frac{1}{2}$	$3\frac{5}{16}$	$30\frac{1}{2}$
57288	20	725	2	20	17	"	"	$18\frac{1}{2}$	$3\frac{15}{16}$	40

FIELD RHEOSTATS

Types FD and F, Forms A, B and BI Rheostats for Mounting on Front or Back of Panel



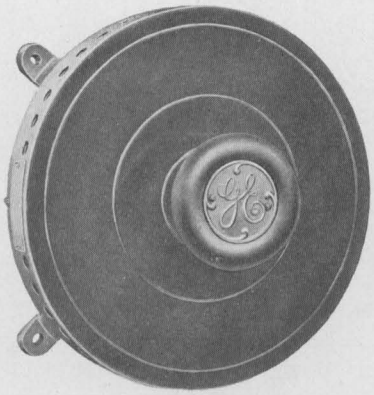
For Front of Board



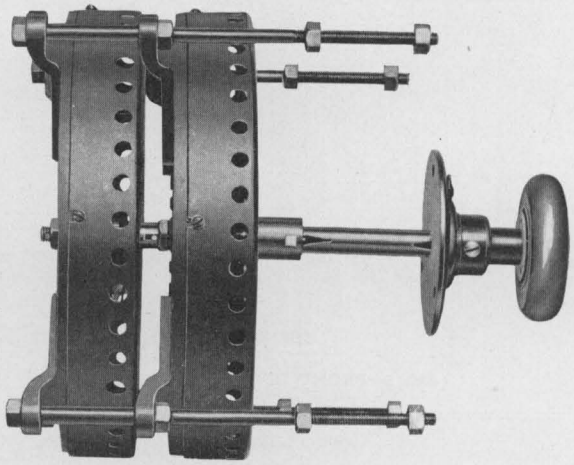
For Back of Board

TYPE FD, FORM A, RHEOSTATS

The resistance used in these rheostats is of the enclosed card type. The rheostats are arranged with an effective multiplying device, giving 400 different steps of resistance.



For Front of Board



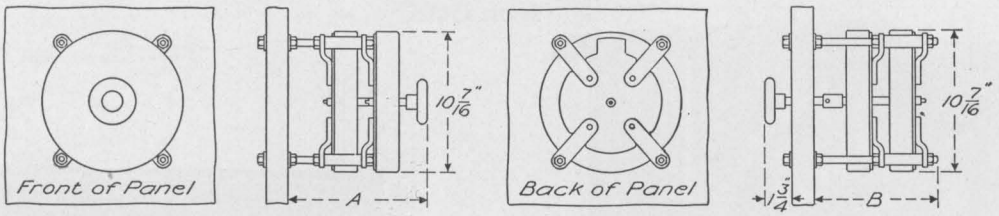
For Back of Board

TYPE F, FORMS B and BI

The resistance used in these rheostats consists of a spiral resistance embedded in a particular form of cement. They have 70 divisions of resistance.

FIELD RHEOSTATS

Dimensions of Type F, Forms B and BI Rheostats for Mounting on Front or Back of Panel



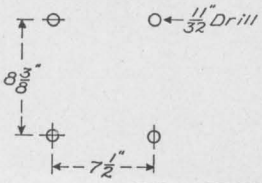


FIG. 1—FRONT OF PANEL

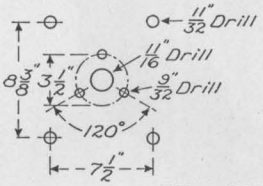


FIG. 2—BACK OF PANEL

Group	No. of Disks	A		Group	No. of Disks	B
1	1	5 1/2	14 lbs. net	3	1	4 7/16
2	2	7 3/8	26 lbs. net	4	2	6 13/16

Dimensions of Type FD, Form A Rheostats for Mounting on Front or Back of Panel

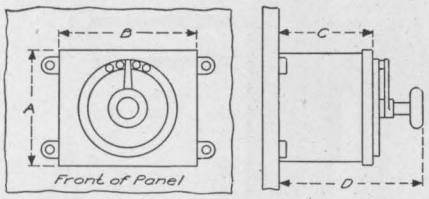
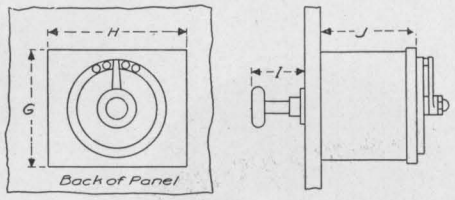




FIG. 3—FRONT OF PANEL



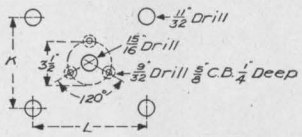


FIG. 4—BACK OF PANEL

Group	No. of Tiers	A	B	C	D	E	F	Group	No. of Tiers	G	H	I	J	K	L
1	1	10	10	5 1/2	9	8 3/8	10 3/8	1	1	10	10	3 3/32	5 1/2	8 3/8	7 1/2
2	2	10	10	7 3/4	11 1/4	8 3/8	10 3/8	2	2	10	10	3 3/32	7 3/4	8 3/8	7 1/2
3	3	10	10	10 1/2	14	8 3/8	10 3/8	3	3	10	10	3 3/32	10 1/2	8 3/8	7 1/2
4	4	10	10	13 1/4	16 3/4	8 3/8	10 3/8	4	4	10	10	3 3/32	13 1/4	8 3/8	7 1/2
5	5	10	10	15 1/2	19	8 3/8	10 3/8	5	5	10	10	3 3/32	15 1/2	8 3/8	7 1/2
6	1	10	12	5 1/2	9	8 3/8	12 3/8	6	1	10	12	3 3/32	5 1/2	8 3/8	9 1/2
7	2	10	12	7 3/4	11 1/4	8 3/8	12 3/8	7	2	10	12	3 3/32	7 3/4	8 3/8	9 1/2
8	3	10	12	10 1/2	14	8 3/8	12 3/8	8	3	10	12	3 3/32	10 1/2	8 3/8	9 1/2
9	4	10	12	13 1/4	16 3/4	8 3/8	12 3/8	9	4	10	12	3 3/32	13 1/4	8 3/8	9 1/2
10	5	10	12	15 1/2	19	8 3/8	12 3/8	10	5	10	12	3 3/32	15 1/2	8 3/8	9 1/2
11	1	10	14	5 1/2	9	8 3/8	14 3/8	11	1	10	14	3 3/32	5 1/2	8 3/8	11 1/2
12	2	10	14	7 3/4	11 1/4	8 3/8	14 3/8	12	2	10	14	3 3/32	7 3/4	8 3/8	11 1/2
13	3	10	14	10 1/2	14	8 3/8	14 3/8	13	3	10	14	3 3/32	10 1/2	8 3/8	11 1/2
14	4	10	14	13 1/4	16 3/4	8 3/8	14 3/8	14	4	10	14	3 3/32	13 1/4	8 3/8	11 1/2
15	5	10	14	15 1/2	19	8 3/8	14 3/8	15	5	10	14	3 3/32	15 1/2	8 3/8	11 1/2
16	1	10	16	5 1/2	9	8 3/8	16 3/8	16	1	10	16	3 3/32	5 1/2	8 3/8	13 1/2
17	2	10	16	7 3/4	11 1/4	8 3/8	16 3/8	17	2	10	16	3 3/32	7 3/4	8 3/8	13 1/2
18	3	10	16	10 1/2	14	8 3/8	16 3/8	18	3	10	16	3 3/32	10 1/2	8 3/8	13 1/2
19	4	10	16	13 1/4	16 3/4	8 3/8	16 3/8	19	4	10	16	3 3/32	13 1/4	8 3/8	13 1/2
20	5	10	16	15 1/2	19	8 3/8	16 3/8	20	5	10	16	3 3/32	15 1/2	8 3/8	13 1/2

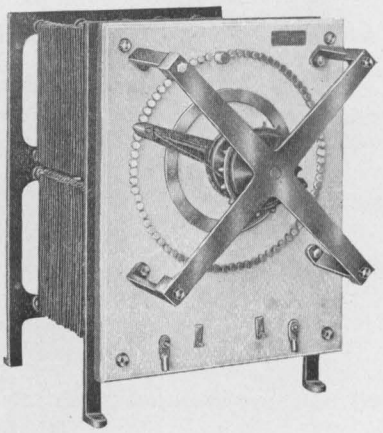
FIELD RHEOSTATS

Dimensions of Types FD and F, Forms A, B and BI Field Rheostats for Mounting on Front or Back of Panels

For 125 Volt Circuits

Front of Panel Cat. No.	Dimensions Fig.	Dimensions Group	Back of Panel Cat. No.	Dimensions Fig.	Dimensions Group	Type	Form	Ohms	Max. Amps. First Step	Max. Amps. Last Step	Front of Panel Cat. No.	Dimensions Fig.	Dimensions Group	Back of Panel Cat. No.	Dimensions Fig.	Dimensions Group	Type	Form	Ohms	Max. Amps. First Step	Max. Amps. Last Step
54190	1	1	54191	2	3	F	BI	2	14	12	54206	1	1	54207	2	3	F	BI	11	6	5.2
55936	3	14	55937	4	34	FD	A	2.5	35	25	54332	3	3	54333	4	23	FD	A	15	10	5
54192	1	1	54193	2	3	F	BI	3	11.5	10	54334	3	9	54335	4	38	FD	A	15	15	6
55938	3	4	55939	4	29	FD	A	3	25	18	54210	1	1	54211	2	3	F	BI	16	5	4.3
54194	1	1	54195	2	3	F	BI	4	10	8.5	54214	1	1	54215	2	3	F	BI	22	4.2	3.7
54322	3	8	54323	4	24	FD	A	4	20	13	54218	1	1	54219	2	3	F	BI	25	4	3.5
55940	3	18	55941	4	38	FD	A	4	25	16	54336	3	17	54337	4	37	FD	A	25	10	5
54324	3	3	54325	4	23	FD	A	5	15	10	54338	3	3	54339	4	32	FD	A	30	7.5	4
55942	3	4	55943	4	29	FD	A	5	20	13	54222	1	1	54223	2	3	F	BI	35	3.4	3
54198	1	1	54199	2	3	F	BI	5.5	8.5	7.4	54226	1	1	54227	2	3	F	BI	50	2.8	2.5
55944	3	14	55945	4	39	FD	A	6	25	13	54230	1	1	54231	2	3	F	BI	70	2.4	2
54326	3	4	54327	4	33	FD	A	7.5	18	9.5	54340	3	7	54341	4	27	FD	A	75	5	1.5
54202	1	1	54203	2	3	F	BI	8	7	6	54234	1	1	54235	2	3	F	BI	100	2	1.7
54328	3	7	54329	4	27	FD	A	10	10	7	55946	3	2	55947	4	27	FD	A	100	4	1
54330	3	8	54331	4	33	FD	A	10	15	8											

Type F, Form A 4 Field Rheostat for Railway Generators and Rotary Converters

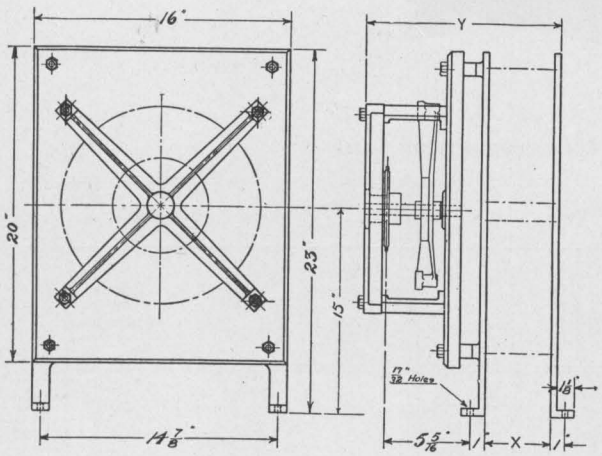


Cat. No. 56022

This illustration shows a field regulating rheostat, combined with a discharge resistance, arranged to be controlled from the switchboard by means of chain and sprocket wheels. The resistance unit used is of the well-known enclosed card type. These rheostats have been designed for standard railway generators and rotary converters, but can be used with other machines if desired.

The sprocket wheel and arm are well insulated from the shaft so that it is impossible to ground the rheostat by means of the chain used in its operation. The resistance of this line of rheostats varies from 20 to 370 ohms and the capacity from 1 to 20 amperes.

Dimensions of Type F, Form A 4 Field Rheostats

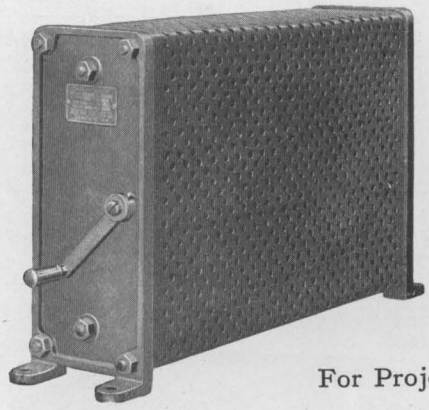


Cat. No.	Res. in Ohms	Amperes	Volts	Dimensions in Inches X	Dimensions in Inches Y	Approx. Ship'g Weight Lbs.
56014	370	3-1	500	6¼	14⅜	240
56015	340	4.5-1.6	500	8¼	16⅜	244
56016	290	5-1.6	500	8¼	16⅜	246
56017	210	3.6-1.6	500	6¼	14⅜	240
56018	200	5-2	500	8¼	16⅜	244
56019	175	9-3	500	10¼	18⅜	254
56020	150	4-2	500	6¼	14⅜	240
56021	101	5-2.5	500	6¼	14⅜	240
56022	90	8-3.5	500	8¼	16⅜	246
56023	80	6-3	500	6¼	14⅜	224
56024	70	10-5	500	10¼	18⅜	245
56025	60	7.5-4.5	500	8¼	16⅜	244
56026	50	15-6.5	500	12¼	20⅜	285
56027	40	12-6.5	500	10¼	18⅜	250
56028	20	20-13	500	12¼	20⅜	285
56029	20	15-10	500	10¼	18⅜	254

BATTERY CHARGING RHEOSTATS

These rheostats are designed for use in connection with charging automobile and other small batteries of secondary cells, and are for use on circuits, the maximum potential of which is 125 volts. The iron grid type of resistance is used in all sizes. The following table contains data on these rheostats of the various capacities:

Charging Rheostats for Circuits up to 125 Volts Maximum

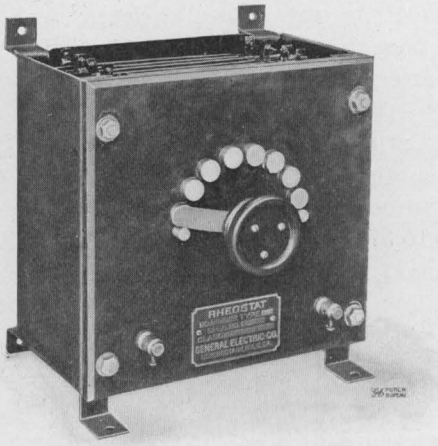


Cat. No.	Type Cells	No. of Cells	Ohms Total	Charging Amperes		Divisions of Resistance	Approx. Shipping Weight Lbs.	List Price
				Begin	Finish			
56463	Edison	60–66	.325	130	40	10	178	$50.00
56464	Lead	40–44	1.3	65	10	10	180	45.00
56465	Lead	24–36	5.4	32.5	10	15	254	50.00
56466	Lead	12–24	8.4	32.5	10	19	290	60.00

RHEOSTATS

For Projectors and Stereopticon Lamps

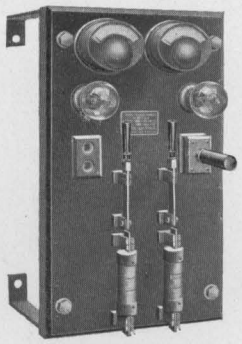
These Lamp Rheostats are for commercial installations and are shown in the accompanying illustration. They are for use with 9″, 13″, 18″ and 24″ projectors and with the stereopticon lamp, on 110–125 volt circuits.



TYPE LA RHEOSTAT FOR STEREOPTICON LAMP

Cat. No.	Size of Projector	Type	Approx. Shipping Weight, Lbs.	List Price
53087	9″	EC	30	
53088	Stereo. Lamp	EC	35	Prices
53089	13″	EC	22	on
53090	18″	EC	32	application
53091	24″	EC	40	

AUTOMOBILE CHARGING PANELS



"PRIVATE" CHARGING PANEL

The method of controlling, measuring, and sometimes converting the electric power for charging electric vehicles depends largely upon the electrical supply available. This supply may be alternating current with a potential of 110, 220 or 440 volts, or direct current with a potential of 110, 230 or 550 volts. On account of these varying local conditions, several types of panels are necessary, and may be conveniently classified under the following headings:

For Charging From Continuous Current Circuits

GARAGE PANELS for public charging stations where 110 volt continuous current is available. See page 197.

PRIVATE CHARGING PANELS for charging one or two vehicles from 110 volt continuous current circuit. See page 196.

MOTOR-GENERATOR PANELS for charging one vehicle from a 230 or 550 volt continuous current circuit. See pages 198 and 199.

For Charging From Alternating Current Circuits

MOTOR-GENERATOR PANELS for controlling 110 volt direct current generators operated by induction motors. For charging one vehicle. See pages 198 and 199.

MERCURY ARC RECTIFIER PANELS for converting alternating current into direct current and measuring and controlling it. For charging one vehicle. See page 146.

PRIVATE CHARGING PANELS

For Use in Connection with Series Rheostats

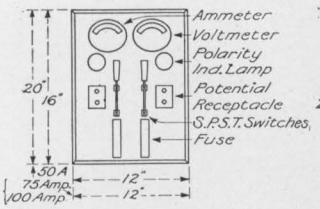


Fig. 1.

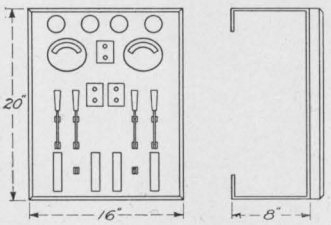
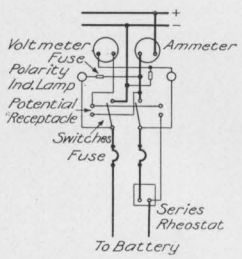
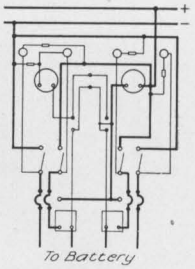


Fig. 2.



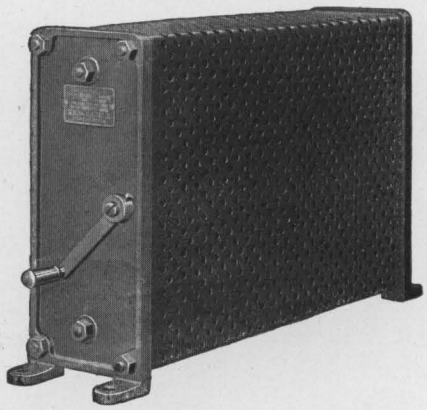


Number of Circuits	Fig. No.	Ammeter Scale	Approx. Shipping Weight, Lbs. (Boxed)	Cat. No.
1	1	50	130	32960
1	1	75	130	32961
1	1	100	130	32962
2	2	50	160	32963

For series charging rheostat see the following table. Panels are made of black slate.

SERIES CHARGING RHEOSTATS

For Circuits up to 125 Volts Maximum



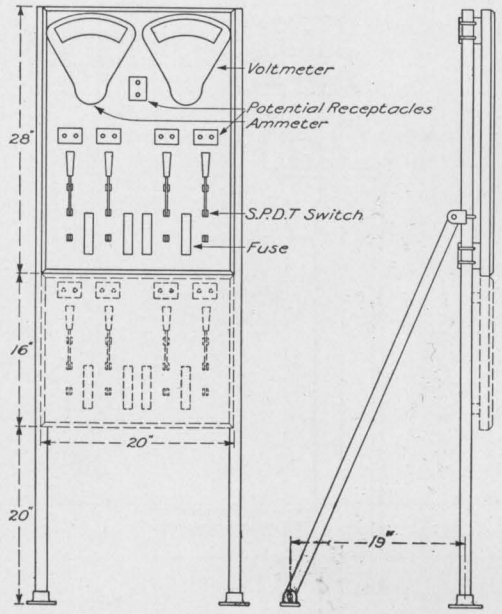
TYPE B CHARGING RHEOSTAT

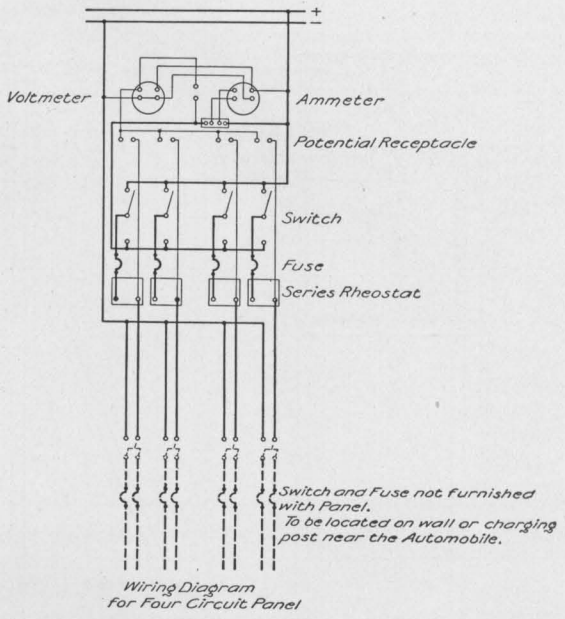
Cat. No.	Type of Cells	No. of Cells	Ohms Total	Charging Amperes		Divisions of Resistance	Approx. Shipping Weight, Lbs.
				Begin	Finish		
56463	Edison	60–66	.325	100	20	10	178
56464	Lead	40–44	1.3	65	10	10	180
56465	Lead	24–36	5.4	32.5	10	15	254
56466	Lead	12–24	8.4	32.5	10	19	290

These rheostats are 6½ inches wide and 16 inches high. The length varies with the capacity.

GARAGE PANELS

For Controlling Only the Positive Side of the Circuit



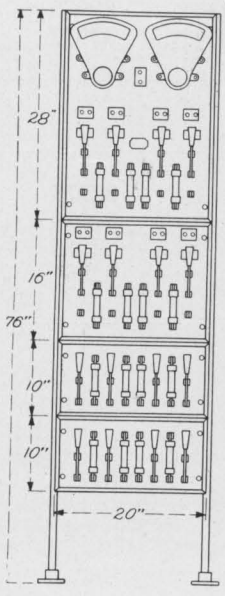


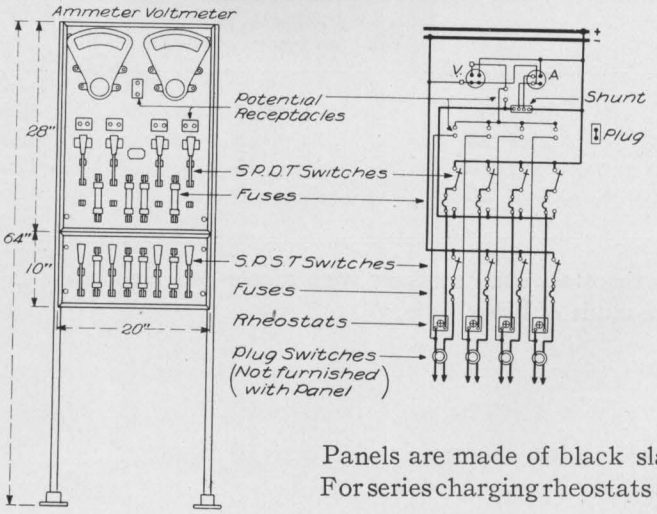
Number of Circuits		Ammeter Scale	Approx. Shipping Wt., Lbs.	Cat. No.	Number of Circuits		Approx. Shipping Wt., Lbs.	Cat. No.
4	Panel	100	500	32964	4	Sub-base	150	32965

For 4-circuit panel, order Cat. No. 32964.
For 8-circuit panel, order one of Cat. No. 32964 and one of Cat. No. 32965.
For 12-circuit panel, order one of Cat. No. 32964 and two of Cat. No. 32965.
Twelve-circuit panels are mounted on pipe supports 76 inches high.

For Controlling Both the Positive and the Negative Sides of the Circuit

No. of Circuits	Ammeter Scale	Description	Approx. Shipping Weight, Lbs.	Cat. No.
4	100	Complete (see outline below)	450	39424
8	100	Complete (see outline below)	700	39425
4		Negative Sub-base, 20" x 10"	100	39426



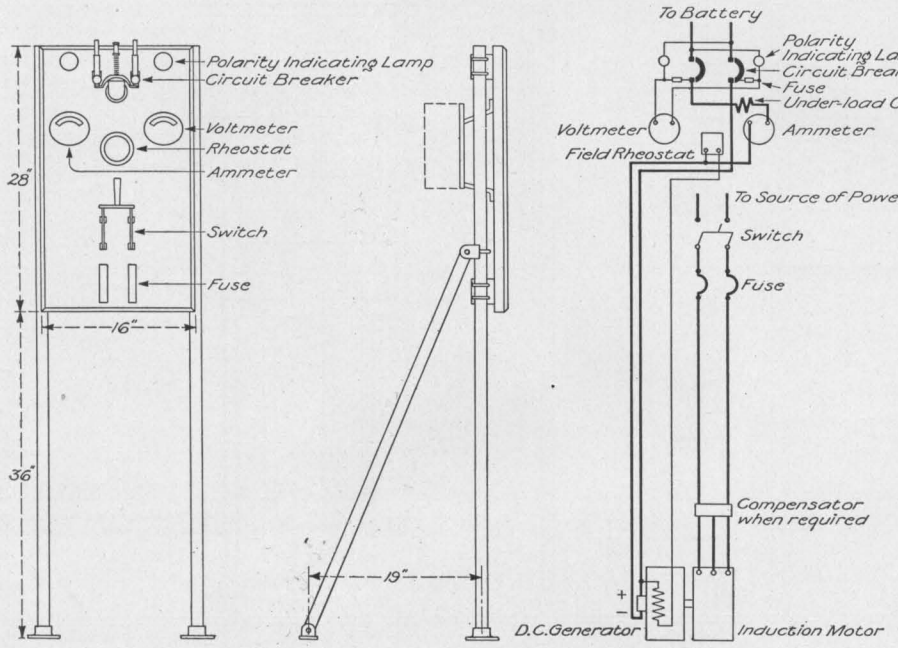


Panels are made of black slate.

For series charging rheostats see page 196.

MOTOR-GENERATOR PANELS

For Controlling Single-Phase Motors and 110 Volt Direct Current Generators



110 VOLT MOTORS

H.P. of Motor	Kw. Capacity of Generator	Ammeter Scale	Approx. Shipping Weight, Lbs.	Cat. No.
1	.5	25	425	32974
2	1.25	25	425	32975
3	1.75	35	425	32976
5	3.25	50	425	32977

220 VOLT MOTORS

1	.5	25	425	32978
2	1.25	25	425	32979
3	1.75	35	425	32980
5	3.25	50	425	32981

No series rheostats are necessary with motor-generator panels.
Panels are made of black slate.

MOTOR-GENERATOR PANELS

For Controlling Three-Phase Motors and 110 Volt Direct Current Generators

110 VOLT MOTORS

H.P. of Motor	Kw. Capacity of Generator	Ammeter Scale	Approx. Shipping Weight, Lbs. (Boxed)	Cat. No.
2	1	25	425	32982
3	1.75	35	425	32983
5	3.25	50	425	32984
7.5	4.25	75	425	32985
10	6	100	425	32986
220 VOLT MOTORS				
2	1	25	425	32987
3	1.75	35	425	32988
5	3.25	50	425	32989
7.5	4.25	75	425	32990
10	6	100	425	32991
440 VOLT MOTORS				
2	1	25	425	32992
3	1.75	35	425	32993
5	3.25	50	425	32994
7.5	4.25	75	425	32995
10	6	100	425	32996

Panels are similar to diagram except that main motor switch will be triple-pole instead of double-pole.

For Controlling Direct Current Motors and 110 Volt Direct Current Generators

230 VOLT MOTORS

H.P. of Motor	Kw. Capacity of Generator	Ammeter Scale	Approx. Shipping Weight, Lbs.	Cat. No.
3	1.75	35	500	32966
5	3.25	50	500	32967
7.5	4.5	75	500	32968
10	6.25	100	500	32969
500 VOLT MOTORS				
3	1.75	35	500	32970
5	3.25	50	500	32971
7.5	4.5	75	500	32972
10	6.25	100	500	32973

The above panels are similar to the illustration with the addition of an automatic motor-starting rheostat on sub-base.

No series rheostats are necessary with motor-generator panels.

Panels are made of black slate.

TWIN CHARGING CABLES

These conductors should be ordered by specification number, giving the ampere capacity and number of feet required.

25 Ampere Twin Cable

Spec. No. 1942 "A." 25 amp. cable, each conductor consisting of 49 No. 25 B.&S. gauge (equal to No. 8 B.&S. gauge) insulated with $\frac{3}{64}$" red core rubber weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

50 Ampere Twin Cable

Spec. No. 1942 "B." 50 amp. cable, each conductor consisting of 49 .024" copper wires (equal to No. 6 B.&S. gauge) insulated with $\frac{1}{16}$" red core rubber weatherproof braid. Two such cables are laid flat and finished with a weatherproof double braid.

100 Ampere Twin Cable

Spec. No. 1942 "C." 100 amp. cable, each conductor consisting of 49 .041" tinned copper wires (equal to No. 1 B.&S. gauge) insulated with $\frac{5}{64}$" red core weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

125 Ampere Twin Cable

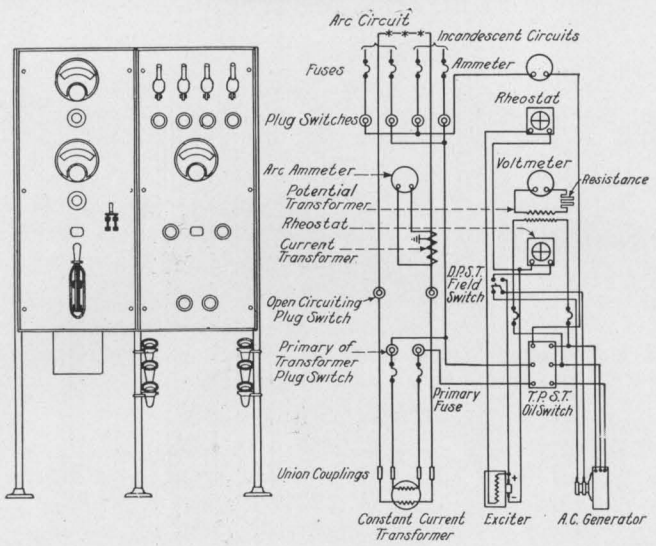
Spec. No. 1942 "D." 125 amp. cable, each conductor consisting of 61 .041" copper wires (equal to No. 0 B.&S. gauge) insulated with $\frac{3}{32}$" red core rubber weatherproof braid. Two such conductors are laid flat and finished with a weatherproof double braid.

For quotations and further information, apply to nearest office.

DOUBLE AND TRIPLE-POLE LEVER SWITCHES MOUNTED ON BASES WITH CONNECTIONS FOR ENCLOSED FUSES

Type L, Form D 12 Switches with Clips for Enclosed Fuses	Enclosed Fuses for Use with Switches	
	Amp. Capacity	Cat. No.
	10	34952
30 Amp. D. P. Switch, Cat. No. 41793	15	34954
30 Amp. T. P. Switch, Cat. No. 41794	20	34955
	25	34956
	30	34957
	35	34958
60 Amp. D. P. Switch, Cat. No. 41797	40	34959
60 Amp. T. P. Switch, Cat. No. 41798	50	34961
	60	34963
	70	34966
100 Amp. D. P. Switch, Cat. No. 41801	80	34968
100 Amp. T. P. Switch, Cat. No. 41802	90	34969
	100	34970
	110	34972
200 Amp. D. P. Switch, Cat. No. 41805	130	34974
200 Amp. T. P. Switch, Cat. No. 41806	150	34976
	180	34979
	200	34981
	225	34983
400 Amp. D. P. Switch, Cat. No. 41809	250	34984
400 Amp. T. P. Switch, Cat. No. 41810	275	34985
	300	34986
	325	34987
	350	34988
	375	34989
	400	34990

SMALL PLANT ALTERNATING CURRENT SWITCHBOARDS



For 25 or 35 Light Transformers

Alternator Circuit				Two Feeders Amp. Capacity Each	Approx. Shipping Weight, Lbs.	Cat. No.
Kw. "A" Rating		Amperes	Ammeter Scale			
1150 Volts	2300 Volts					
	40	12	15	8	1000	42963
25	50	16	20	10	1000	42964
40	80	24	30	20	1000	42965
50	100	32	40	25	1000	42966
80	160	48	60	30	1000	42967
100	200	64	80	40	1000	42968
125	250	80	100	50	1000	42969

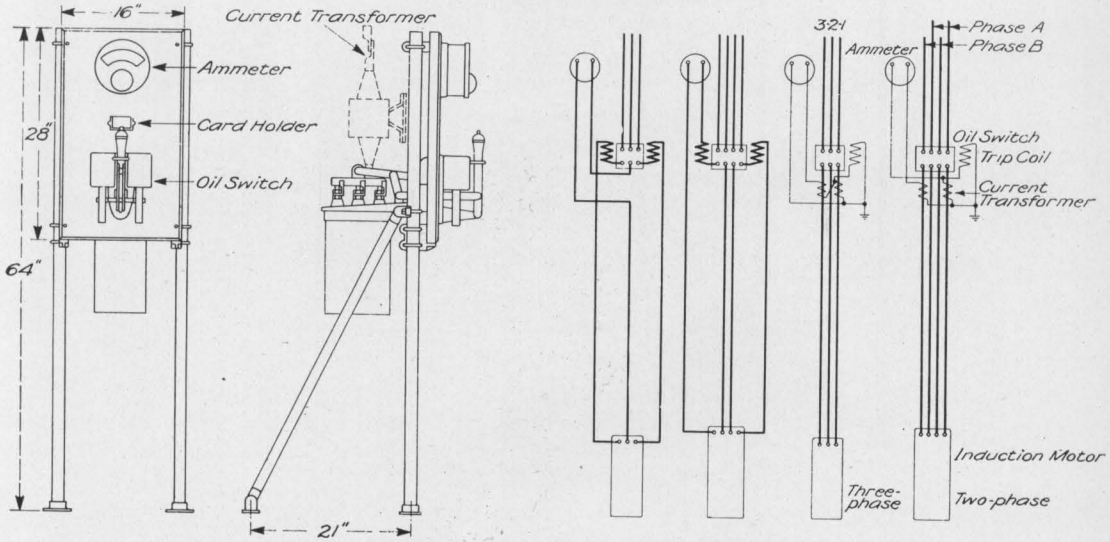
Fuses

Lights	1150 Volts	2300 Volts	Lights	1150 Volts	2300 Volts
25	Cat. No. 51293	Cat. No. 51290	35	Cat. No. 51295	Cat. No. 51292

Fuses for constant current transformer circuit should be specified by Catalogue Number. See accompanying table. Panels are made of black slate.

These panels are intended to meet the requirements of small stations of 200 Kw. capacity and less, operating at 1150 or 2300 volts. They contain the necessary instruments and devices for controlling a three-phase generator, and 3 single-phase feeder circuits one of which feeds a constant current transformer for series arc lighting.

2080 VOLT INDUCTION MOTOR PANELS FOR CONTROLLING FORM L MOTORS



Three-Phase Panels

H.P. of Motor	Ampere Capacity	Ammeter Scale	Approx. Shipping Weight, Lbs.	Cat. No.
25	8	10	325	40833
30–35	12	15	325	40834
40–50	16	20	325	40835
60–75	24	30	325	40836
85–100	32	40	325	40837
125–150	48	60	325	40838
175–200	60	80	325	40839
250	80	100	325	40840
300–350	120	150	400	*40841
400–450	160	200	400	*40842

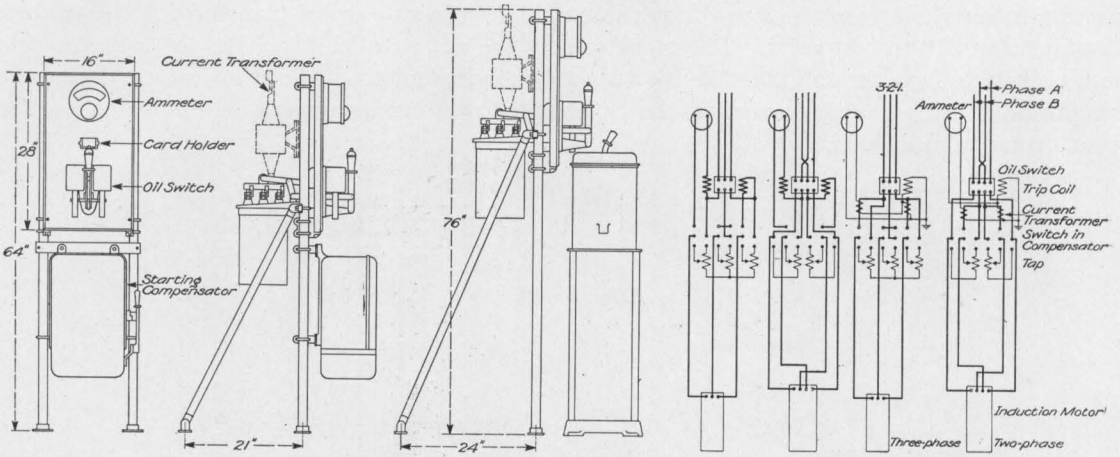
Two-Phase Panels

25	8	10	325	40843
30–35–40	12	15	325	40844
50	16	20	325	40845
60–75–85	24	30	325	40846
100	32	40	325	40847
125–150–175	48	60	325	40848
200	60	80	325	40849
250–300	80	100	325	40850
350–400–450	120	150	400	*40851

*Includes current transformer.

Panels are of blue Vermont marble.

2080 VOLT INDUCTION MOTOR PANELS FOR CONTROLLING FORM K MOTORS



Three-Phase Panels

H.P. of Motor	Ampere Capacity	Ammeter Scale	Approx. Shipping Weight, Lbs.	Cat. No.
25	8	10	350	40852
30–35	12	15	350	40853
40–50	16	20	350	40854
60–75	24	30	350	40855
85–100	32	40	350	40856
125–150	48	60	350	40857
175–200	60	80	350	40858
250	80	100	350	40859
300–350	120	150	425	*40860
400–450	160	200	425	*40861

Two-Phase Panels

25	8	10	350	40862
30–35–40	12	15	350	40863
50	16	20	350	40864
60–75–85	24	30	350	40865
100	32	40	350	40866
125–150–175	48	60	350	40867
200	60	80	350	40868
250–300	80	100	350	40869
350–400–450	120	150	425	*40870

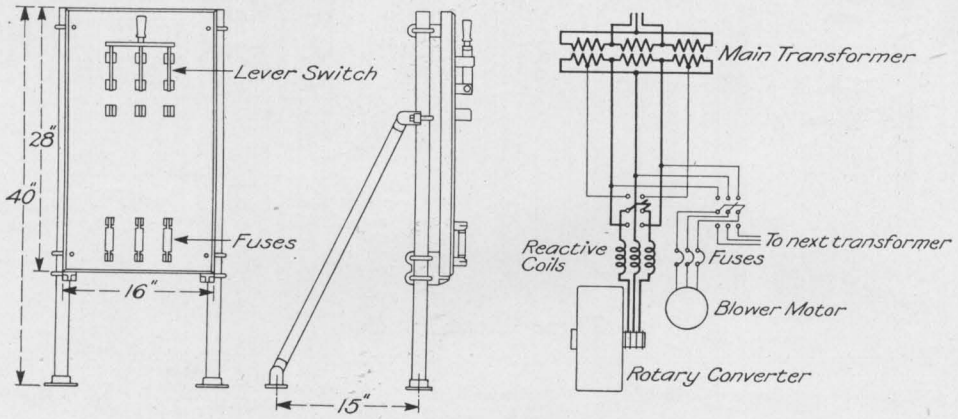
*Includes current transformer.

Panels are of blue Vermont marble.

Starting compensators are furnished with motors, and panels simply provide for mounting them.

LOW VOLTAGE THREE-PHASE INDUCTION MOTOR PANELS

Blower motors for supplying air to the step-down transformers in railway substations are invariably supplied from the low voltage side of the main step-down transformer, the voltage ranging from 370 to 440 volts. The transformers are not paralleled on the low tension side and, therefore, in order to make the blower motors independent of the transformer, the panels are provided with double throw switches so that the motor may always be connected to the transformer in operation.



H.P. of Motor	Ampere Capacity of Fuse	Approximate Shipping Weight, Lbs.	Cat. No.
¾–1	5	175	30325
2	10	175	30326
3–4	20	175	30327
3–5	25	175	30328
7.5–9	45	175	30329

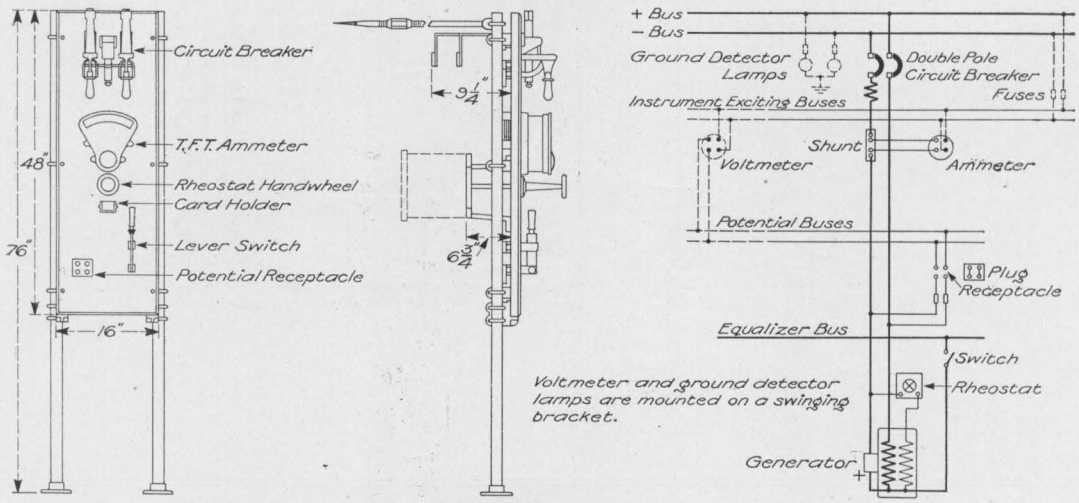
Panels are of black enameled slate.

ISOLATED PLANT SWITCHBOARD PANELS, WITH CIRCUIT BREAKERS

Stations containing a single direct current unit, operating at 125 or 250 volts and having a capacity not greater than 68 or 136 kilowatts respectively, can be properly controlled from the combination generator and feeder panel listed on pages 207 and 208. If an additional generator is to be installed, generator panels listed on page 205 are preferable, as they provide for the parallel operation of the generators, and are better adapted for future additions of feeder circuits controlled from separate panels, as shown and listed on page 206.

125 AND 250 VOLT GENERATOR PANELS

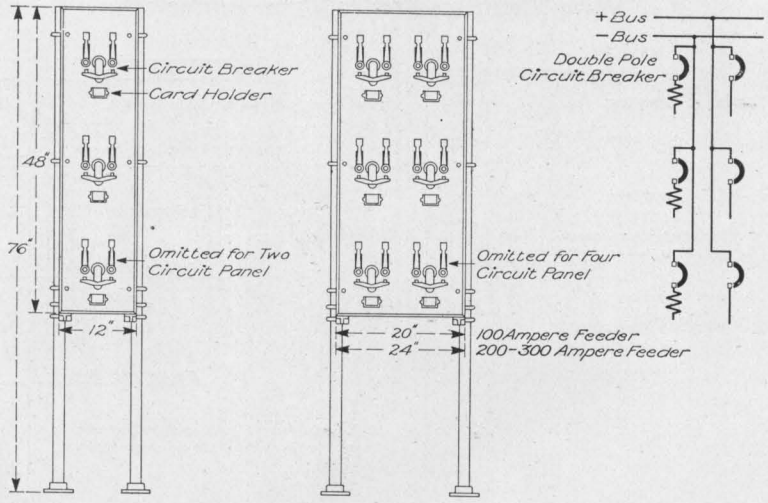
With Thomson Feeder Type Ammeters



Kw. Capacity				Ampere Capacity			Approximate Shipping Weight, Lbs.	Cat. No.	
125 Volts		250 Volts		Panel	Ammeter	Circuit Breaker		125 Volts	250 Volts
Overload		Overload							
25%	50%	25%	50%						
5	4	10	8	50	60	100	400	36590	36600
6.5	6	13	12	70	80	100	400	36591	36601
8.5	7	17	14	85	100	100	400	36592	36602
12.5	11	25	22	130	150	200	400	36593	36603
17	14	34	28	175	200	200	400	36594	36604
25	21	50	42	260	300	300	400	36595	36605
34	28	68	56	350	400	500	400	36596	36606
50	42	100	84	500	600	500	400	36597	36607
68	56	136	112	700	800	800	400	36598	36608
85	70	170	140	850	1000	800	400	36599	36609

Order voltmeter on swinging bracket with ground detector lamps and potential plug { Cat. No. 41594, 175 V. scale. Cat. No. 41595, 350 V. scale.

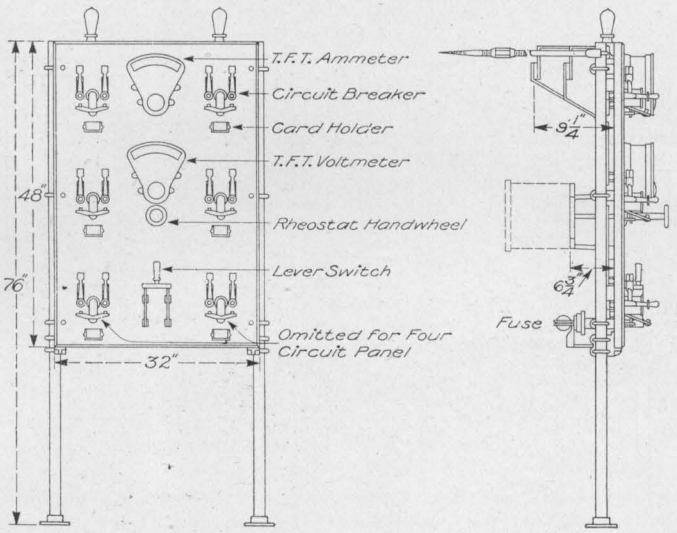
125 OR 250 VOLT FEEDER PANELS



Number of Feeder Circuits per Panel	Ampere Capacity of Each Feeder	Approx. Shipping Weight, Lbs.	Cat. No.
2	25	350	36610
2	50	350	36611
2	100	350	36612
2	200	350	36613
2	300	350	36614
3	25	350	36615
3	50	350	36616
3	100	350	36617
3	200	400	36618
3	300	400	36619
4	25	400	36620
4	50	400	36621
4	100	400	36622
4	200	450	36623
4	300	450	36624
6	25	450	36625
6	50	450	36626
6	100	450	36627
6	200	500	36628
6	300	500	36629

125 AND 250 VOLT COMBINATION PANELS

With Thomson Feeder Type Instruments



Four-Circuit Combination Panels

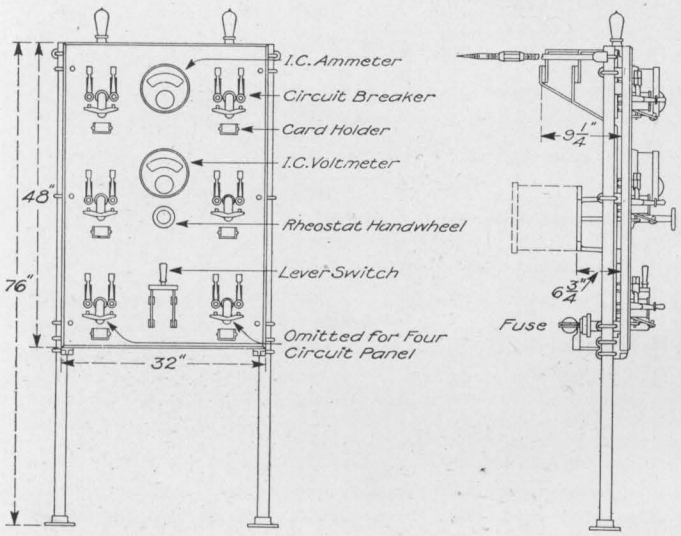
Kw. Capacity				Ampere Capacity				Approximate Shipping Weight, Lbs.	Cat. Number	
125 Volts		250 Volts		Panel	Ammeter	Generator Switch	Feeder Circuit Breaker		125 Volts	250 Volts
Overload		Overload								
25%	50%	25%	50%							
5	4	10	8	50	60	100	4–25	700	36630	36640
6.5	6	13	12	70	80	100	4–25	700	36631	36641
8.5	7	17	14	85	100	100	4–50	700	36632	36642
12.5	11	25	22	130	150	200	4–50	700	36633	36643
17	14	34	28	175	200	200	4–100	700	36634	36644
25	21	50	42	260	300	300	4–100	700	36635	36645
34	28	68	56	350	400	500	4–200	750	36636	36646
50	42	100	84	500	600	500	4–200	750	36637	36647
60	50	120	100	600	800	800	4–300	750	36638	36648

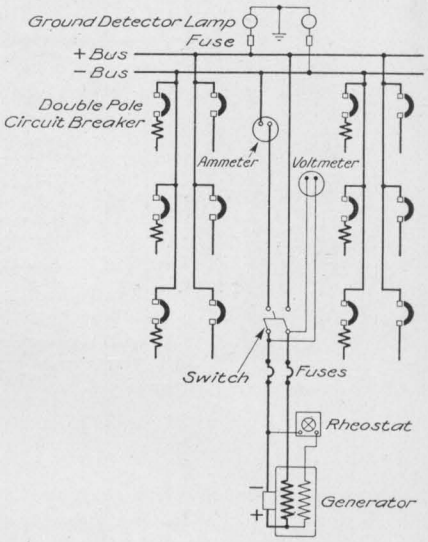
Six-Circuit Combination Panels

5	4	10	8	50	60	100	6–15	750	36650	36660
6.5	6	13	12	70	80	100	6–25	750	36651	36661
8.5	7	17	14	85	100	100	2– 50, 4– 25	750	36652	36662
12.5	11	25	22	130	150	200	2– 50, 4– 25	750	36653	36663
17	14	34	28	175	200	200	2–100, 4– 50	750	36654	36664
25	21	50	42	260	300	300	2–100, 4– 50	750	36655	36665
34	28	68	56	350	400	500	2–200, 4–100	750	36656	36666
50	42	100	84	500	600	500	2–200, 4–100	750	36657	36667
60	50	120	100	600	800	800	2–300, 4–200	800	36658	36668

125 AND 250 VOLT COMBINATION PANELS

With Round Pattern Instruments



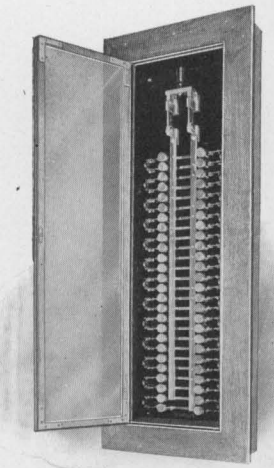


Four-Circuit Combination Panels

Kw. Capacity				Ampere Capacity				Approx. Shipping Weight. Lbs.	Cat No.	
125 Volts		250 Volts		Panel	Ammeter	Generator Switch	Feeder Circuit Breakers		125 Volts	250 Volts
Overload		Overload								
25%	50%	25%	50%							
5	4	10	8	50	60	100	4– 25	700	36670	36675
6.5	6	13	12	70	80	100	4– 25	700	36671	36676
8.5	7	17	14	85	100	100	4– 50	700	36672	36677
12.5	11	25	22	130	150	200	4– 50	700	36673	36678
17	14	34	28	175	200	200	4–100	700	36674	36679

Six-Circuit Combination Panels

5	4	10	8	50	60	100	6–15	750	36680	36685
6.5	6	13	12	70	80	100	6–25	750	36681	36686
8.5	7	17	14	85	100	100	2–50, 4–25	750	36682	36687
12.5	11	25	22	130	150	200	2–50, 4–25	750	36683	36688
17	14	34	28	175	200	200	2–100, 4–50	750	36684	36689



COMPLETE STANDARD CABINET AND PANEL

FUSE-PLUG CABINET PANELS

General Electric Cabinet Panels are compact and well finished, possess high-grade features throughout and represent the latest and most satisfactory devices of their kind on the market.

Only the best material enters into their construction. Prices of standard panels include fuse plugs. The capacity of the plug, however, must be stated in the order, otherwise 10-ampere plugs will be furnished.

Panels: The standard line as listed on the following pages has been selected after careful study of the general requirements, but other panels to meet special conditions can be made to order.

Connections are made on the front of the board. All live parts on the back of the board are countersunk and covered with an insulating compound.

Danger of accidental short circuit is eliminated by the fact that the bus-bars are located below the level of the tops of the fuse plugs.

Panels are designed to take the standard 125-volt Edison fuse plug or 250-volt reloadable fuse plug (See pages 235 and 234).

Switches: The switches used on General Electric Cabinet Panels are of the strongest mechanical construction. Bus-bars and main switches have a capacity of 10 amperes per circuit.

Finishes: Panels are furnished in two finishes: Style 1 (Standard), slate base with dull black finish and bus-bars and cross connections satin finished. Style 2, slate base with polished black enameled finish and metal parts polished and lacquered.

Panels of any kind of marble can be furnished at an additional cost.

Cabinets: This company is prepared to furnish cabinets made from selected ash, in two styles: Style A, for surface work, with sides and front highly finished, and Style B for flush work, with front only finished.

The dimensions of cabinets given in the following pages are the over-all dimensions of the box, and are the same for both styles. The front of the Style B cabinet extends 1″ all around beyond the edge of the box. The standard cabinet has a 3″ chamber for the wires around the outside of the panel and is lined throughout with $\frac{1}{8}$″ asbestos.

Slate lined or 1-16″ sheet-iron lined cabinets are required by the National Code for use in damp places, and can be furnished at an additional cost.

Unless special drilling is specified in the order, cabinets will be furnished without drilling for the entrance and exit of the cables.

The doors of cabinets are provided with panes of double-thick glass, strong hinges and substantial locks.

Barriers: By the use of barriers, a more finished appearance is given the cabinet, as they separate the wiring in the cabinet from the active part of the panel. These barriers consist of four pieces of slate mounted on edge on the panel and fastened to the back of the cabinet by means of corner irons. All barriers have arches opposite each terminal for the wire, which permits the complete wiring of the panel and the placing of the barriers after all connections have been made.

Extras: If any alterations in standard panels are desired, such as fuse connections in main, meter loops, extra-heavy mains, extra switches, lugs at both ends, special drilling for entrance and exit of cable, etc., notation should be made on the face of the order.

List prices of panels on the following pages cover panels with Standard Style 1 finish. On Style 2 finish and extras, prices will be quoted on application.

To obviate confusion, in the ordering of cabinets, attention is called to the following explanation of prices covering the several classes of boxes and linings this company is prepared to furnish.

COLUMN

C. For wooden cabinets, either Style A or Style B, with asbestos-lined backs and gutters. Plain trim and door with plain glass panel, lock and two keys.

D. For wooden cabinets, either Style A or Style B, with 1-16″ thick sheet iron gutter lining and same trim and door as in column C.

E. For wooden cabinets, either Style A or Style B, with $\frac{3}{8}$″ thick slate gutter lining and same trim and door as in column C.

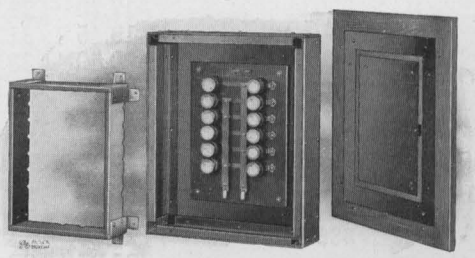
F. For steel cabinet boxes without trim or door. (The same box as used for either flush or surface work.)

G. For the steel box of column F, with the same wooden trim and door as in column C.

H. For the steel box of column F, with plain steel trim and plain steel door, having steel hinges and lock with two keys.

I. For the steel box of column F with plain steel trim and a steel door, fitted with a plain glass panel steel hinges and lock with two keys.

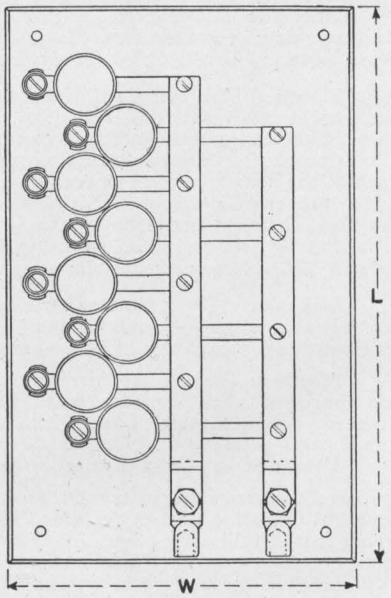
J. For the extra cost of a $\frac{3}{8}$″ thick, plain slate gutter lining for any of the steel boxes in columns F, G, H or I.



STANDARD CABINET, PANEL, AND BARRIERS

CABINET PANELS FOR TWO-WIRE MAINS

Single-Branch Circuits, No Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33000	2	10	8	$3.80
33001	4	15	8	6.75
33002	6	20	9	9.75
33003	8	25	9	12.75
33004	10	30	9	15.75

250 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33005	2	12	9	$5.75
33006	4	19	9	10.50
33007	6	25	9	15.50
33008	8	32	9	20.25
33009	10	39	9	25.25

Cabinets for Above Panels

125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33010	33015	2	$16.85	$27.85	$28.60	$9.75	$22.35	$17.55	$23.50	$11.00
33011	33016	4	17.70	29.00	30.00	11.50	25.00	20.00	27.00	12.00
33012	33017	6	19.45	31.35	33.00	13.00	27.25	22.75	30.60	13.00
33013	33018	8	20.60	33.00	35.00	15.25	30.45	26.40	35.65	14.25
33014	33019	10	22.65	36.00	38.75	16.70	32.50	29.25	39.30	15.25

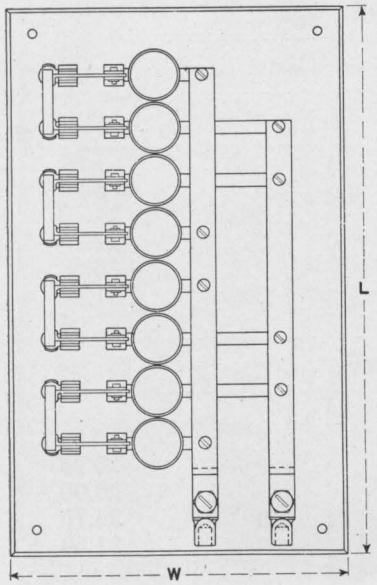
250 VOLTS

33020	33025	2	$17.70	$29.00	$30.00	$10.90	$24.00	$19.00	$25.50	$11.60
33021	33026	4	19.85	32.00	33.65	13.00	27.25	22.75	30.60	12.65
33022	33027	6	21.50	34.25	36.50	15.25	30.45	26.40	35.65	14.25
33023	33028	8	23 35	37.25	40.25	17.25	33.00	30.25	40.30	15.50
33024	33029	10	24.65	39.60	43.00	18.25	35.50	32.25	43.00	16.85

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels

CABINET PANELS FOR TWO-WIRE MAINS

Single-Branch Circuits, Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	* Dimen. in Inches		List Price
		L	W	
33030	2	11	9	$5.25
33031	4	17	9	9.60
33032	6	24	9	14.00
33033	8	30	10	18.25
33034	10	36	10	22.75
250 VOLTS				
33035	2	13	11	$7.25
33036	4	21	11	13.25
33037	6	29	11	19.50
33038	8	36	11	25.50
33039	10	45	11	31.75

Cabinets for Above Panels

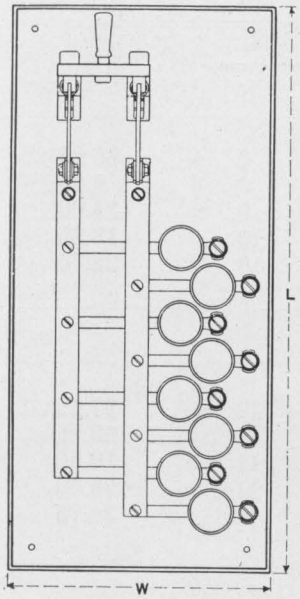
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33040	33045	2	$17.25	$28.50	$29.30	$10.90	$24.00	$19.00	$25.50	$11.60
33041	33046	4	19.00	30.75	32.25	12.50	26.40	21.75	29.25	12.65
33042	33047	6	21.00	33.65	35.85	14.50	29.60	25.40	34.00	14.00
33043	33048	8	23.35	37.25	40.25	17.25	33.00	30.25	40.30	15.50
33044	33049	10	24.65	39.60	43.00	18.25	35.50	32.25	43.00	16.85
250 VOLTS										
33050	33055	2	$18.60	$30.25	$31.50	$11.90	$25.80	$20.75	$28.00	$12.35
33051	33056	4	21.00	33.65	35.85	15.25	30.45	26.40	35.65	14.25
33052	33057	6	23.35	37.25	40.25	17.70	33.80	30.85	41.65	15.80
33053	33058	8	25.70	40.85	44.50	18.60	36.85	32.50	43.50	17.40
33054	33059	10	28.25	44.35	48.90	19.30	40.00	33.80	35.25	19.25

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Single-Branch Circuits, Main Switch



125 VOLTS

Cat. No.	No. of Circuits	* Dimen. in Inches		List Price
		L	W	
33060	2	14	8	$ 8.50
33061	4	19	8	11.50
33062	6	24	8	14.75
33063	8	31	9	18.50
33064	10	36	9	21.50
250 VOLTS				
33065	2	17	9	$10.50
33066	4	23	9	15.25
33067	6	30	9	20.00
33068	8	38	9	26.75
33069	10	44	9	31.50

Cabinets for Above Panels

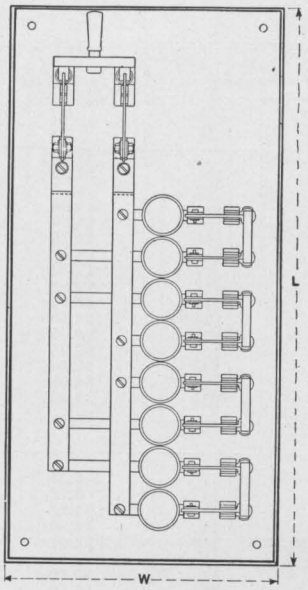
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
39723	39726	2	$17.70	$ 29.00	$30.00	$11.50	$25.00	$20.00	$27.00	$12.00
39724	39727	4	19.45	31.35	33.00	12.50	26.40	21.75	29.25	12.65
39725	39728	6	20.60	33.00	35.00	14.00	28.85	24.50	33.00	13.65
33070	33072	8	23.00	36.50	39.45	17.25	33.00	30.25	40.30	15.50
33071	33073	10	24.00	38.50	41.65	18.25	35.00	31.75	42.65	16.50
250 VOLTS										
33074	33078	2	$19.00	$30.75	$32.25	$12.50	$26.40	$21.75	$29.25	$12.65
39729	39730	4	21.00	33.65	35.85	14.50	29.60	25.40	34.00	14.00
33075	33079	6	22.65	36.00	38.75	16.70	32.50	29.25	39.30	15.25
33076	33080	8	24.65	39.60	43.00	18.25	35.50	32.25	43.00	16.85
33077	33081	10	26.50	42.00	46.00	18.60	37.40	32.50	43.65	17.70

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Single Branch Circuits, Main and Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33082	2	16	9	$10.00
33083	4	23	9	14.50
33084	6	28	9	19.25
33085	8	35	10	24.50
33086	10	42	10	29.25
250 VOLTS				
33087	2	18	11½	$12.00
33088	4	26	11½	18.50
33089	6	34	11½	24.75
33090	8	43	11½	32.25
33091	10	51	11½	38.50

Cabinets for Above Panels

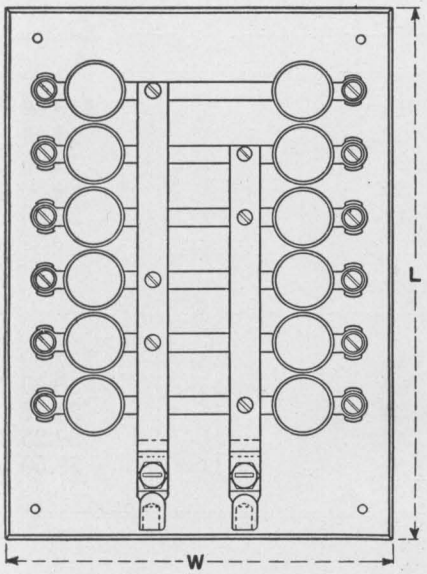
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33092	33096	2	$19.00	$30.75	$32.25	$12.50	$26.40	$21.75	$29.25	$12.65
33093	33097	4	21.00	33.65	35.85	14.50	29.60	25.40	34.00	14.00
33094	33098	6	22.25	35.40	38.00	16.25	32.00	28.25	37.85	15.00
33095	33099	8	24.35	39.00	42.35	18.25	35.50	32.25	43.00	43.00
39731	39732	10	26.50	42.00	46.00	18.75	37.85	32.65	43.80	43.80
250 VOLTS										
33100	33105	2	$20.60	$33.00	$35.00	$14.50	$29.60	$25.40	$34.00	$14.00
33101	33106	4	23.00	36.50	39.45	17.25	33.00	30.25	40.30	15.50
33102	33107	6	25.25	40.30	43.80	18.50	36.25	32.35	43.25	17.25
33103	33108	8	28.25	44.35	48.90	19.30	40.00	33.80	35.25	19.25
33104	33109	10	30.75	47.85	53.25	19.85	42.50	34.50	46.40	21.00

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Double-Branch Circuits, No Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches L.	*Dimen. in Inches W.	List Price
33110	2	7½	10	$3.50
33111	4	10½	10	5.75
33112	6	13½	10	8.00
33113	8	17	10	10.50
33114	10	20	10	12.75
33115	12	24	11½	15.00
33116	14	27	11½	17.50
33117	16	30	11½	19.75
33118	18	34	11½	22.00
33119	20	37	11½	24.50
39552	22	40	12½	26.75
39553	24	44	12½	29.25
39554	26	47	12½	31.50
39555	28	50	12½	34.00
39556	30	53	12½	36.50
		250 VOLTS		
33120	2	9	11	$ 5.25
33121	4	13	11	8.25
33122	6	17	11	11.25
33123	8	21	11	14.00
33124	10	25	11	17.00
33125	12	29	11	20.00
33126	14	33	11	23.00
33127	16	37	11	26.00
33128	18	41	11	29.00
33129	20	45	11	32.00

Cabinets for Above Panels

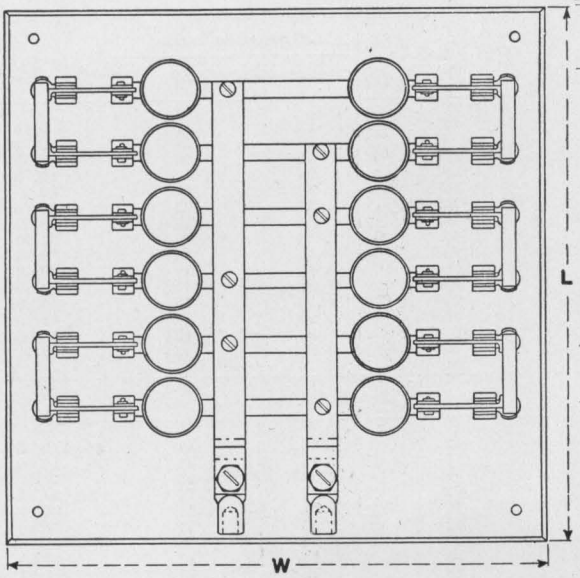
125 VOLTS

Cat. No. Style A	Cat. No. Style B	No. of Circuits	List Prices C	D	E	F	G	H	I	J
33130	33134	2	$16.85	$27.85	$28.60	$9.75	$22.35	$17.55	$23.50	$11.00
39733	39787	4	17.70	29.00	30.00	10.90	24.00	19.00	25.50	11.60
39734	39788	6	18.60	30.25	31.50	11.90	25.80	20.75	28.00	12.35
39735	39789	8	19.45	31.35	33.00	13.00	27.25	22.75	30.60	13.00
33131	33135	10	20.60	33.00	35.00	14.00	28.85	24.50	33.00	13.65
39790	39765	12	22.25	35.40	38.00	15.65	31.00	27.40	36.85	14.50
39763	39766	14	23.35	37.25	40.25	16.70	32.50	29.25	39.30	15.25
33132	33136	16	24.00	38.50	41.65	18.25	35.00	31.75	42.65	16.50
33133	33137	18	28.25	40.30	43.80	18.50	36.25	32.35	43.25	17.25
39764	39767	20	26.50	42.00	46.00	18.60	37.40	32.50	43.65	17.70
39557	39562	22	28.25	44.35	48.85	19.25	39.45	33.50	45.00	19.00
39558	39563	24	29.85	46.70	51.75	19.50	41.00	34.00	45.85	20.00
39559	39564	26	30.85	47.85	53.25	19.85	42.50	34.50	46.40	20.90
39560	39565	28	31.60	49.00	54.65	20.25	43.25	35.25	47.25	21.60
39561	39566	30	32.35	50.35	56.25	20.30	44.25	35.65	47.85	22.25
			250 VOLTS							
33138	33145	2	$17.25	$28.40	$29.30	$10.90	$24.00	$19.00	$25.50	$11.60
33139	33146	4	18.50	30.25	31.45	11.90	25.80	20.75	28.00	12.35
39768	39771	6	17.85	32.00	33.75	13.75	28.25	24.75	31.75	13.20
33140	33147	8	21.00	33.75	35.80	15.25	30.45	26.40	35.65	14.00
39769	39772	10	22.65	36.00	38.75	16.70	32.50	29.25	39.30	15.25
33141	33148	12	23.35	37.25	40.25	17.70	33.80	30.90	41.65	15.80
33142	33149	14	24.65	39.60	43.00	18.45	36.25	32.35	43.25	17.25
39770	39773	16	26.25	41.50	45.25	18.60	37.40	32.50	43.65	17.70
33143	33150	18	27.40	43.25	47.45	18.85	38.45	33.00	44.35	18.25
33144	33151	20	28.25	44.40	48.90	19.30	40.00	33.80	45.25	19.30

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Double-Branch Circuits, Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches L.	*Dimen. in Inches W.	List Price
33152	2	7½	14	$4.80
33153	4	10½	14	8.50
33154	6	13½	14	12.00
33155	8	17	14	15.60
33156	10	20	14	19.25
33157	12	24	15	22.75
33158	14	27	15	26.50
33159	16	30	15	30.00
33160	18	34	15	33.75
33161	20	37	15	37.50
39567	22	40	16	41.00
39568	24	44	16	45.00
39569	26	47	16	48.75
39570	28	50	16	52.50
39571	30	53	16	56.50

250 VOLTS

33162	2	9	16	$ 6.50
33163	4	13	16	12.25
33164	6	17	16	18.00
33165	8	21	16	23.50
33166	10	25	16	29.25
33167	12	29	16½	34.75
33168	14	33	16½	40.50
33169	16	37	16½	46.00
33170	18	41	16½	51.75
33171	20	45	16½	57.25

Cabinets for Above Panels

125 VOLTS

Cat. No. Style A	Cat. No. Style B	No. of Circuits	List Prices C	D	E	F	G	H	I	J
33172	33182	2	$17.70	$29.00	$30.00	$10.90	$24.00	$19.00	$25.50	$11.60
33173	33183	4	19.25	30.85	32.25	12.50	26.40	21.75	29.15	12.65
33174	33184	6	19.85	32.00	33.75	13.75	28.25	24.80	31.75	13.20
33175	33185	8	21.00	33.75	35.80	15.25	30.45	26.40	35.65	14.00
33176	33186	10	22.25	35.40	38.00	16.25	32.00	28.45	37.85	15.00
33177	33187	12	24.00	38.45	41.60	18.25	35.00	31.75	42.65	16.50
33178	33188	14	25.25	40.30	43.80	18.50	36.25	32.35	43.25	17.25
33179	33189	16	26.25	41.45	45.25	18.70	37.85	32.65	43.80	18.00
33180	33190	18	27.85	43.80	48.25	19.25	39.50	33.50	45.00	19.00
33181	33191	20	29.00	45.70	50.35	19.50	40.60	34.00	45.60	19.60
39572	39577	22	30.85	47.85	53.25	20.25	43.25	35.25	47.30	21.60
39573	39578	24	32.35	50.30	56.25	20.30	44.25	35.65	47.85	22.25
39574	39579	26	34.00	52.65	58.60	20.85	45.00	36.40	48.75	23.50
39575	39580	28	34.80	53.80	60.00	21.00	46.55	36.85	49.45	24.25
39576	39581	30	36.40	56.25	62.00	21.30	47.25	37.25	50.00	24.80

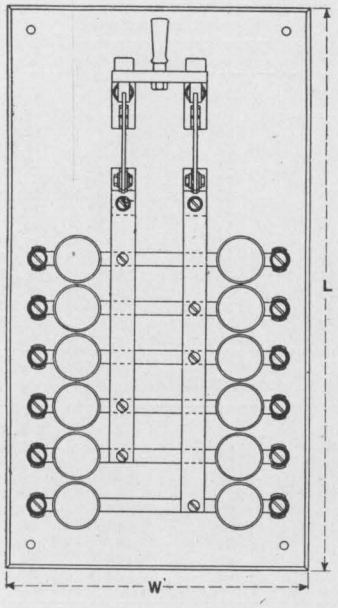
250 VOLTS

33192	33202	2	$19.25	$30.85	$32.25	$12.50	$26.40	$21.75	$29.25	$12.60
33193	33203	4	20.25	32.50	34.35	14.00	28.75	24.50	34.35	13.65
33194	33204	6	21.75	34.80	37.25	16.25	32.00	28.45	37.85	15.00
33195	33205	8	23.35	37.25	40.25	17.70	33.80	30.90	41.65	15.85
33196	33206	10	24.65	39.60	43.00	18.50	36.25	32.35	43.25	17.25
33197	33207	12	27.00	42.65	46.70	19.00	38.45	33.00	44.35	18.25
33198	33208	14	28.25	44.35	48.90	19.50	40.60	34.00	45.50	19.60
33199	33209	16	29.85	46.70	51.75	19.75	42.00	34.35	46.25	20.60
33200	33210	18	31.60	49.00	54.65	20.30	44.25	35.65	47.85	22.25
33201	33211	20	33.00	51.50	57.40	20.60	45.00	36.00	48.30	23.00

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Double-Branch Circuits, Main Switch



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33212	2	13	10	$ 8.25
33213	4	16	10	10.75
33214	6	19	10	13.50
33215	8	24	10	16.75
33216	10	27	10	19.50
33217	12	32	11½	25.75
33218	14	35	11½	28.50
33219	16	38	11½	31.50
33220	18	41	11½	35.50
33221	20	44	11½	37.00
39582	22	50	12½	44.00
39583	24	53	12½	47.00
39584	26	56	12½	49.75
39585	28	59	12½	53.00
39586	30	62	12½	56.00
		250 VOLTS.		
33222	2	14	11	$10.00
33223	4	18	11	14.00
33224	6	22	11	17.50
33225	8	27	11	24.25
33226	10	31	11	28.50
33227	12	36	11	36.50
33228	14	40	11	41.75
33229	16	44	11	47.00
33230	18	48	11	52.25
33231	20	52	11	57.50

Cabinets for Above Panels

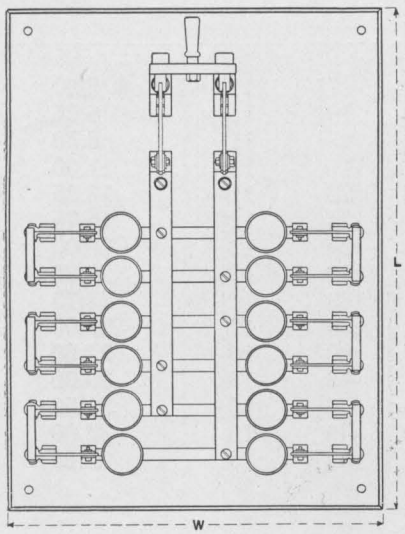
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
39774	39780	2	$19.50	$30.25	$31.45	$11.90	$25.80	$20.75	$28.00	$12.35
39871	39872	4	19.45	31.35	33.00	12.50	26.40	21.75	29.25	12.65
39775	39781	6	20.25	32.50	34.25	13.75	28.25	24.80	31.75	13.20
39873	39782	8	21.45	34.25	36.50	15.65	31.00	27.40	36.85	14.50
33232	33234	10	22.65	36.00	38.70	16.70	32.50	29.25	39.30	15.25
39776	39783	12	24.65	39.60	43.00	18.25	35.50	32.25	43.00	16.85
39777	39784	14	25.65	40.90	44.50	18.60	36.85	32.50	43.50	17.40
33233	33235	16	26.50	42.00	46.00	18.70	37.85	32.65	43.80	18.00
39778	39785	18	27.85	43.80	48.25	19.00	38.85	33.25	44.50	18.75
39779	39786	20	29.00	45.70	50.30	19.30	42.00	33.50	45.25	19.30
39587	39592	22	31.60	49.00	53.25	20.25	43.25	35.25	47.25	21.60
39588	39593	24	32.35	50.30	56.25	20.30	44.25	35.65	47.85	22.25
39589	39594	26	34.00	52.65	58.60	20.60	45.00	36.00	48.30	23.00
39590	39595	28	34.80	53.80	59.75	20.85	45.85	36.40	48.75	23.50
39591	39596	30	35.65	55.25	61.00	21.35	47.25	39.25	49.85	24.80
			250 VOLTS							
33236	33240	2	$19.25	$30.85	$32.25	$12.45	$26.40	$21.75	$29.25	$12.65
39791	39797	4	20.25	32.50	34.35	14.00	28.85	24.50	32.85	13.75
39792	39798	6	21.50	34.25	36.50	15.25	30.45	26.40	35.65	14.25
33237	33241	8	23.00	36.50	39.45	17.25	33.00	30.25	40.30	15.50
39793	39799	10	24.00	38.45	41.65	18.25	35.00	31.75	42.65	16.50
39794	39800	12	25.65	41.00	44.50	18.50	36.85	32.50	43.50	17.40
39795	39801	14	27.00	42.65	46.70	18.85	38.45	33.00	44.35	18.25
39796	39802	16	28.25	44.35	48.85	19.25	39.45	33.50	44.95	19.00
33238	33242	18	29.85	46.70	51.75	19.45	41.00	34.00	45.80	20.00
33239	33243	20	30.85	47.85	53.25	20.00	42.50	34.50	46.40	20.85

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR TWO-WIRE MAINS

Double Branch Circuits, Main and Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches L	*Dimen. in Inches W	List Price
33244	2	13	14	$ 9.75
33245	4	16	14	13.60
33246	6	19	14	17.50
33247	8	24	14	22.25
33248	10	27	14	26.00
33249	12	32	15	33.75
33250	14	35	15	38.00
33251	16	38	15	42.00
33252	18	41	15	46.00
33253	20	44	15	50.00
39597	22	50	16	58.50
39598	24	53	16	62.75
39599	26	56	16	67.00
39600	28	59	16	71.25
39601	30	62	16	75.75
		250 VOLTS		
33254	2	14	16	$11.60
33255	4	18	16	17.25
33256	6	22	16	23.00
33257	8	27	16	30.00
33258	10	31	16	35.50
33259	12	36	16½	44.50
33260	14	40	16½	51.00
33261	16	44	16½	57.25
33262	18	48	16½	63.25
33263	20	52	16½	69.25

Cabinets for Above Panels

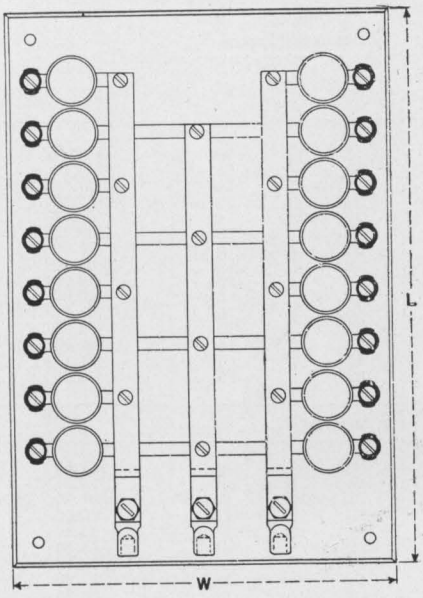
125 VOLTS

Cat. No. Style A	Cat. No. Style B	No. of Circuits	List Prices C	D	E	F	G	H	I	J
33264	33273	2	$19.85	$32.00	$33.65	$13.65	$28.25	$23.80	$31.76	$13.25
39803	39804	4	21.00	33.65	35.85	14.50	29.60	25.40	34.00	13.95
33265	33274	6	21.75	34.80	36.25	15.65	31.00	27.40	36.85	14.50
33266	33275	8	23.75	37.85	41.00	17.70	33.80	30.90	41.65	15.80
33267	33276	10	24.35	39.00	42.35	18.25	35.50	32.25	43.00	16.80
33268	33277	12	27.00	42.65	46.70	18.85	38.45	33.00	44.35	18.25
33269	33278	14	28.25	44.35	48.85	19.30	40.00	33.80	45.25	19.30
33270	33279	16	29.85	46.70	51.75	19.45	41.00	34.00	45.85	20 00
33271	33280	18	30.85	47.85	53.25	19.85	42.50	34.50	46.40	20.85
33272	33281	20	31.60	49.00	54.65	20.25	43.35	35.25	47.25	21.60
39602	39607	22	34.80	53.80	59.75	21.00	46.50	36.85	49.45	24.25
39603	39608	24	36.40	56.25	62 00	21.35	47.25	37.25	50.00	24.80
39604	39609	26	37.25	57.45	63.00	21.75	48.60	38.25	51.00	26.25
39605	39610	28	38.85	59.75	64.65	22.00	49.30	38.50	51.75	26.85
39606	39611	30	39.75	61.00	65.50	22.35	50.00	38.85	52 25	27.40
			250 VOLTS							
33282	33291	2	$21.00	$33.65	$35.85	$17.40	$29.60	$25.40	$34.00	$13.95
33283	33292	4	22.25	35.40	38.00	16.65	32.50	29.25	39.30	15.25
33284	33293	6	23.75	37.85	41.00	18.00	34.35	31.60	42.35	16.25
33285	33294	8	25.65	41.00	44.50	18.55	36.85	32.50	43.50	17.40
33286	33295	10	27.40	43.25	47.45	19.25	38.85	33.25	44.50	18.75
39805	39806	12	29.85	46.70	51.75	19.60	41.50	34.25	46.00	20.30
33287	33296	14	31.60	49.00	54.65	20.25	43.35	35.25	47.25	21.60
33288	33297	16	34.00	51.60	57.45	20.60	44.95	36.00	48.25	23.00
33289	33298	18	34.80	53 80	59.75	21.00	46.50	36.85	49.45	24.25
33290	33299	20	36.40	56.25	62.00	21.45	47.85	37.70	50.60	25.50

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Two-Wire Double-Branch Circuits, No Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches L.	*Dimen. in Inches W.	List Price
33300	2	7½	11½	$ 3.80
33301	4	10½	11½	6.25
33302	6	13½	11½	8.50
33303	8	17	11½	11.00
33304	10	20	11½	13.25
33305	12	24	12½	15.75
33306	14	27	12½	18.00
33307	16	30	12½	20.25
33308	18	33	12½	22.75
33309	20	36	12½	25.00
39612	22	40	15	27.50
39613	24	43	15	30.00
39614	26	46	15	31.50
39615	28	49	15	35.00
39616	30	52	15	37.25

Cabinets for Above Panels

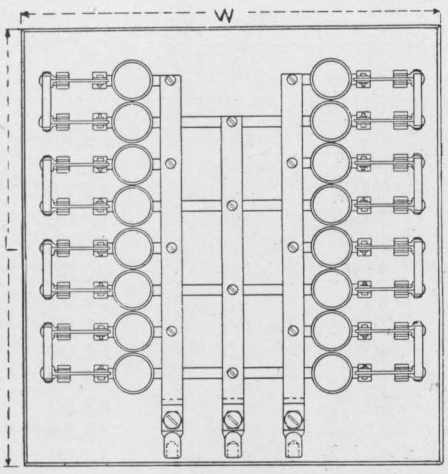
125 VOLTS

Cat. No. Style A	Cat. No. Style B	No. of Circuits	List Prices C	D	E	F	G	H	I	J
33310	33317	2	$17.25	$28.45	$29.30	$10.30	$23.00	$18.00	$24.25	$11.30
33311	33318	4	18.25	29.60	30.85	11.50	24.95	20.00	27.00	11.90
33312	33319	6	19.25	30.85	32.25	12.50	26.40	21.75	29.25	12.65
39807	39810	8	20.25	32.50	34.35	13.65	28.25	23.75	31.75	13.25
39808	39811	10	21.00	33.65	35.85	15.25	30.45	26.40	35.65	14.25
33313	33320	12	22.65	36.00	38.75	17.25	33.00	30.25	40.30	15.50
33314	33321	14	23.75	37.85	41.00	18.00	34.35	31.65	42.35	16.25
39809	39812	16	24.65	39.60	43.00	18.25	35.50	32.25	43.00	16.85
33315	33322	18	25.65	41.00	44.50	18.50	36.85	32.50	43.50	17.40
33316	33323	20	26.50	42.00	46.00	18.85	38.45	33.00	44.35	18.25
39617	39622	22	29.85	46.70	51.75	19.75	42.00	34.35	46.25	20.60
39618	39623	24	31.60	49.00	54.65	20.25	43.35	35.25	47.25	21.60
39619	39624	26	32.35	50.35	56.25	20.30	44.25	35.65	47.85	22.25
39620	39625	28	34.00	42.65	58.60	20.85	45.85	36.40	48.75	23.50
39621	39626	30	34.80	53.80	59.75	21.00	46.50	36.85	49.45	24.25

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Two-Wire Double-Branch Circuits, Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L.	W	
33324	2	7½	15½	$5.25
33325	4	10½	15½	9.00
33326	6	13½	15½	12.60
33327	8	17	15½	16.50
33328	10	20	15½	20.00
33329	12	24	16	23.75
33330	14	27	16	27.50
33331	16	30	16	31.50
33332	18	33	16	35.00
33333	20	36	16	38.75
39627	22	40	18½	51.00
39628	24	43	18½	55.00
39629	26	46	18½	59.25
39630	28	49	18½	63.50
39631	30	52	18½	67.75

Cabinets for Above Panels

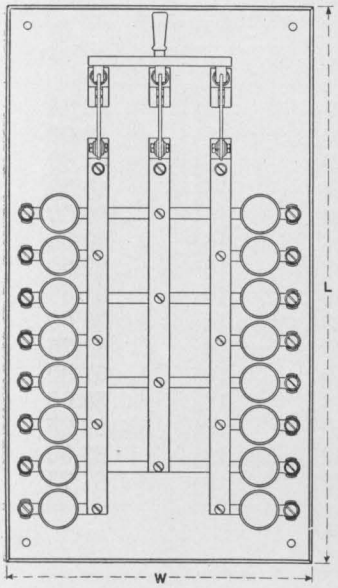
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33334	33339	2	$18.25	$29.60	$30.75	$11.45	$25.00	$20.00	$27.00	$11.90
33335	33340	4	19.45	31.35	33.00	13.00	27.25	22.85	30.60	12.90
33336	33341	6	20.60	33.00	35.00	14.00	28.90	24.50	33.00	13.65
39813	39817	8	21.75	34.80	37.25	15.65	31.00	27.40	36.85	14.50
39814	39818	10	23.25	36.50	39.45	17.25	33.00	30.25	40.30	15.50
39815	39819	12	24.40	39.00	42.35	18.25	35.50	32.25	43.25	16.85
39644	37977	14	25.65	40.90	44.50	18.60	36.85	32.50	43.50	17.40
39816	39820	16	27.00	42.65	46.70	18.85	38.45	33.00	44.35	18.25
33337	33342	18	28.25	44.35	48.90	19.30	40.00	33.80	45.25	19.30
33338	33343	20	30.75	47.85	53.25	19.45	41.00	34.00	45.80	20.00
39632	39637	22	33.00	51.50	57.50	20.60	45.00	36.00	48.30	23.00
39633	39638	24	34.00	52.65	58.60	20.85	45.85	36.40	48.75	23.50
39634	39639	26	35.65	55.25	61.00	21.35	47.25	37.25	49.85	24.80
39635	39640	28	36.40	56.25	62.00	21.45	47.85	37.70	50.60	25.50
39636	39641	30	38.00	58.60	63.80	22.00	49.30	38.45	51.75	26.85

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Two-Wire Double-Branch Circuits, Main Switch



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33344	2	13	11½	$ 9.80
33345	4	16	11½	12.60
33346	6	19	11½	15.40
33347	8	23	11½	18.00
33348	10	26	11½	21.00
33349	12	31	12½	25.50
33350	14	34	12½	28.25
33351	16	37	12½	31.25
33352	18	40	12½	34.00
33353	20	43	12½	37.00
39642	22	48	15	42.50
39643	24	51	15	45.50
39645	26	54	15	48.50
39646	28	57	15	51.50
39647	30	60	15	54.50

Cabinets for Above Panels

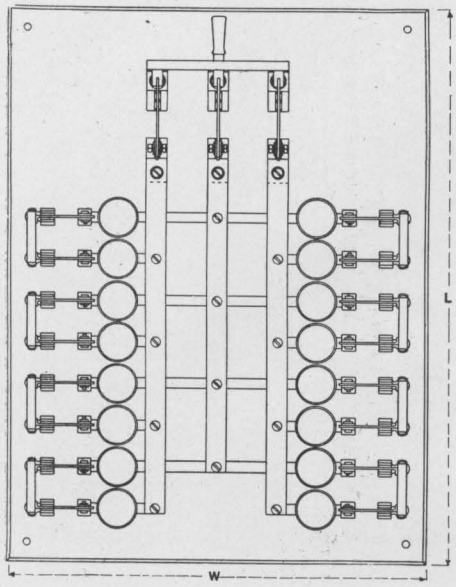
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33354	33359	2	$19.00	$30.75	$32.25	$12.45	$26.40	$21.75	$29.25	$12.65
33355	33360	4	19.85	32.00	33.65	13.65	28.25	23.80	31.65	13.25
33356	33361	6	21.00	33.65	35.85	14.50	29.60	25.40	34.00	14.00
39821	39826	8	22.40	35.40	38.00	16.25	32.00	28.25	37.85	15.00
39822	39827	10	23.00	36.50	39.45	17.25	33.00	30.25	40.30	15.50
39823	39828	12	24.65	38.70	43.00	18.45	36.25	32.35	43.20	17.25
39824	39829	14	26.25	41.50	45.25	18.50	37.40	32.50	43.65	17.70
39825	39830	16	27.00	42.65	46.70	18.85	38.45	33.00	44.35	18.25
33357	33362	18	28.25	43.35	48.90	19.30	40.00	33.80	45.25	19.30
33358	33363	20	29.00	45.70	51.75	19.45	41.00	34.00	45.80	20.00
39648	39653	22	33.00	51.50	57.45	20.60	45.00	36.00	48.30	23.00
39649	39654	24	34.80	53.80	59.75	20.85	45.85	36.40	48.75	23.50
39650	39655	26	35.65	55.25	61.00	21.35	47.25	37.25	49.85	24.80
39651	39656	28	36.40	56.25	62.00	21.45	47.85	37.70	50.60	25.50
39652	39657	30	38.00	58.60	63.80	21.75	48.60	38.25	51.00	26.25

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Two-Wire Double-Branch Circuits, Main and Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33364	2	13	15½	$11.50
33365	4	16	15½	15.60
33366	6	19	15½	20.00
33367	8	23	15½	24.00
33368	10	26	15½	28.50
33369	12	31	16	37.25
33370	14	34	16	41.25
33371	16	37	16	45.50
33372	18	40	16	49.50
33373	20	43	16	53.50
39658	22	48	18½	60.00
39659	24	51	18½	65.00
39660	26	54	18½	68.50
39661	28	57	18½	72.75
39662	30	60	18½	77.00

Cabinets for Above Panels

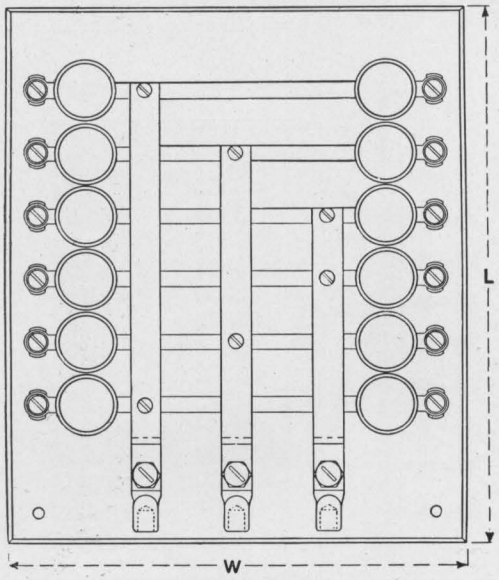
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
39831	39837	2	$20.25	$32.50	$34.40	$14.00	$28.85	$24.50	$33.00	$13.65
33374	33378	4	21.50	34.25	36.50	15.25	30.45	26.40	35.65	14.20
33375	33379	6	22.65	36.00	38.75	16.70	32.50	29.25	39.40	15.25
39832	39838	8	24.00	38.45	41.65	18.00	34.35	31.60	42.35	16.25
39833	39839	10	25.25	40.35	43.80	18.45	36.25	32.35	43.20	17.25
39834	39840	12	27.40	43.25	47.45	19.00	38.85	33.25	44.50	18.75
39835	39841	14	28.25	44.35	48.90	19.45	40.60	34.00	45.50	19.60
39836	39842	16	29.85	45.70	51.75	19.60	41.45	34.25	46.00	20.30
33376	33380	18	30.75	47.85	53.25	20.25	43.25	35.25	47.25	21.60
33377	33381	20	32.35	50.35	56.25	20.30	44.25	35.65	47.85	22.25
39663	39668	22	36.40	56.25	62.00	21.45	47.85	37.70	50.60	25.50
39664	39669	24	38.00	58.60	63.80	21.75	48.60	38.25	51.00	26.25
39665	39670	26	38.85	59.75	64.65	22.35	47.85	38.85	52.20	27.40
39666	39671	28	40.60	62.20	66.25	22.65	50.60	39.45	52.75	28.25
39667	39672	30	41.35	63.35	67.00	23.00	51.85	40.25	54.00	29.45

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Three-Wire Double-Branch Circuits, No Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L.	W.	
33382	2	10	11	$4.80
33383	4	14	11	8.50
33384	6	19	11	12.25
33385	8	24	11	16.00
33386	10	28	11	20.00

Cabinets for Above Panels

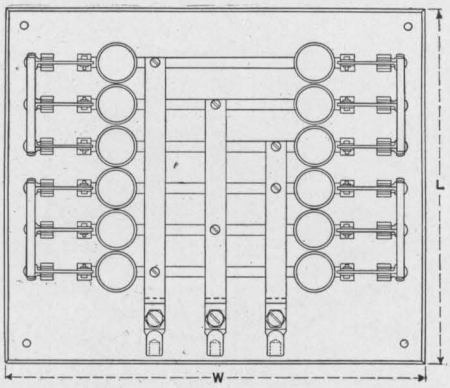
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33387	33389	2	$17.70	$29.00	$30.00	$10.90	$24.00	$19.00	$25.50	$11.60
39843	39846	4	19.00	30.75	32.25	12.45	26.40	21.75	29.25	12.60
39844	39847	6	20.60	33.00	35.00	14.00	28.85	24.50	33.00	13.65
33388	33390	8	22.40	35.40	38.00	16.25	32.00	28.25	37.85	15.00
39845	39848	10	23.35	37.25	40.25	17.70	33.80	30.90	41.65	15.80

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Three-Wire Double-Branch Circuits, Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L.	W.	
33391	2	10	15½	$ 7.00
33392	4	14	15½	11.80
33393	6	19	15½	16.75
33394	8	24	15½	21.50
33395	10	28	15½	29.00

Cabinets for Above Panels

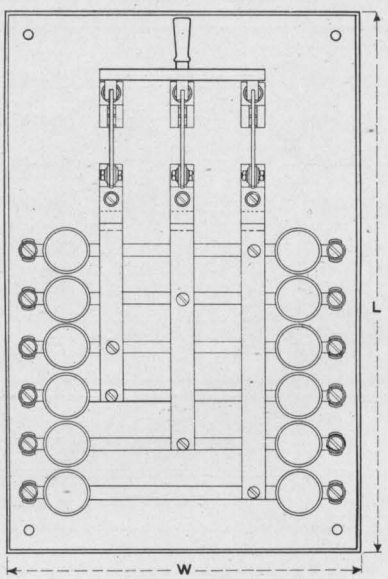
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33396	33397	2	$19.00	$30.75	$33.25	$12.50	$26.40	$21.75	$29.25	$12.65
39849	39852	4	20.60	33.00	35.00	14.50	29.60	25.40	34.00	14.00
33375	33379	6	22.65	36.00	38.75	16.70	32.50	29.25	39.30	15.25
39850	39853	8	24.00	38.45	41.65	18.25	35.00	31.75	42.65	16.50
39851	39854	10	25.65	41.00	44.50	18.60	37.40	32.50	43.65	17.70

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Three-Wire Double-Branch Circuits, Main Switch



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33398	2	13	11	$10.75
33399	4	18	11	15.00
33400	6	23	11	19.50
33401	8	28	11	24.00
33402	10	32	11	28.50

Cabinets for Above Panels

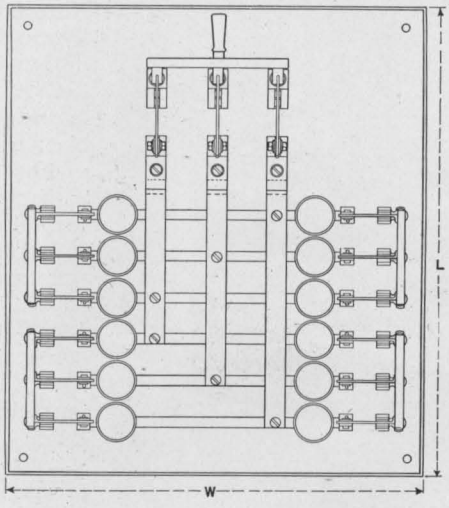
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
33403	33404	2	$18.50	$30.25	$31.45	$11.90	$25.80	$20.75	$28.00	$12.35
39855	39858	4	20.25	32.50	34.35	14.00	28.85	24.50	33.00	13.65
39856	39859	6	21.85	34.80	37.25	15.65	31.00	27.40	36.85	14.50
39845	39848	8	23.35	37.25	40.25	17.70	33.80	30.90	41.65	15.80
39857	39860	10	24.36	39.00	42.35	18.25	35.00	31.75	42.65	16.50

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

CABINET PANELS FOR THREE-WIRE MAINS

Three-Wire Double-Branch Circuits, Main and Circuit Switches



125 VOLTS

Cat. No.	No. of Circuits	*Dimen. in Inches		List Price
		L	W	
33405	2	13	$15\frac{1}{2}$	$11.50
33406	4	18	$15\frac{1}{2}$	17.60
33407	6	23	$15\frac{1}{2}$	24.00
33408	8	28	$15\frac{1}{2}$	30.00
33409	10	32	$15\frac{1}{2}$	36.00

Cabinets for Above Panels

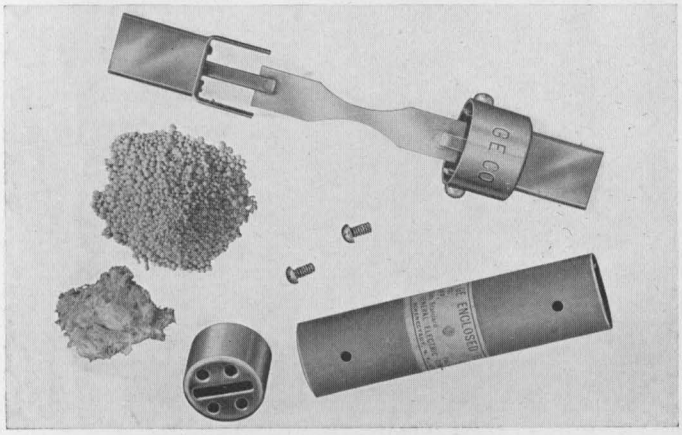
125 VOLTS

Cat. No.		No. of Circuits	List Prices							
Style A	Style B		C	D	E	F	G	H	I	J
39861	39866	2	$20.25	$32.50	$34.35	$14.00	$28.85	$24.50	$33.00	$13.65
39862	39867	4	22.25	35.40	38.00	16.25	32.00	28.25	37.85	14.95
39863	39868	6	24.00	38.45	41.65	18.00	34.35	31.60	42.35	16.25
39864	39869	8	25.65	41.00	44.50	18.50	37.40	32.50	43.65	17.70
39865	39870	10	27.50	43.25	47.40	19.00	38.90	33.25	44.50	18.70

*The length and also width of cabinet is 8 inches more than corresponding dimensions of panels.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

This catalogue embodies the different cut-outs and enclosed fuses, which were recently adopted by the Underwriters and which are known as the National Electrical Code Standard. Through the adoption of a uniform design, size and rating, by representatives of enclosed fuse manufacturers and the Underwriters' Association, all fuses and cut-outs which conform to the requirements of the rules will hereafter be standard and interchangeable.



EXPLODED VIEW OF 100 AMPERE 250 VOLT N. E. C. S. ENCLOSED FUSE

Wrought copper cable terminals are furnished with all cut-outs, except the 30 ampere, 250 volt sizes, which are fitted with washers and screw terminals.

Each G. E. Enclosed Fuse is furnished with an indicator to show when the fuse has blown. In the center of the label is a small hole through which passes a short length of very fine wire. This indicating wire appears at no other part of the fuse, and it cannot become broken except through the blowing of the fuse.

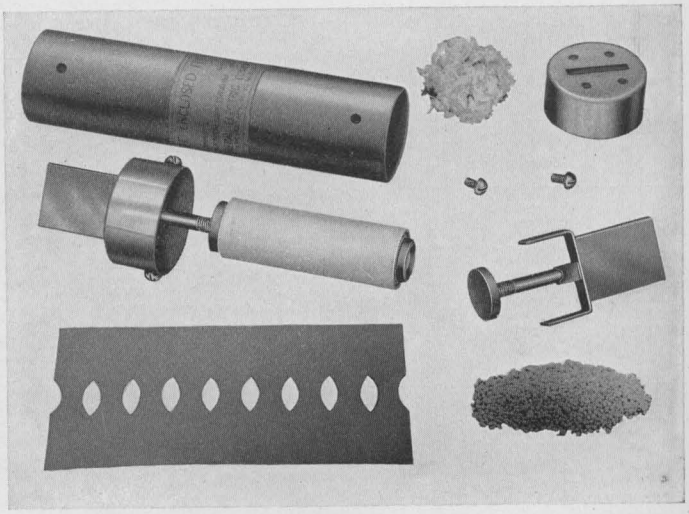
Fuses are provided with ferrule or knife blade contacts according to the requirements of the National Electrical Code Standard.

All fuses have copper leading in wires or strips, in order to reduce the length of the fuse metal. This decreases the bulk of the metal that is changed to a metallic vapor when the fuse is blown.

The chemical properties of the compound which enters into the construction of the G. E. fuses, absorb the gases, render the action of the fuses quiet, and at the same time destroy the arc.

The illustration below shows the Rolled Ribbon type of fuse link adopted for use in the 600 volt line of enclosed fuses, 100 amperes and larger. The fusible element consists of a long strip of very thin fusible metal, which is wrapped about an asbestos core with strips of thin sheet asbestos separating the convolutions of fusible strip. Oval sections are cut out of the fusible strip at equal distances apart so as to insure the breaking of the strip at the center when the fuse blows. This type of fuse link was found after repeated tests to have many advantages over the straight link. The most important feature is the effectiveness with which the arc is extinguished when the fuse is blown on a dead short circuit or very heavy overload. This is due to the subdivision of the fuse link into a number of sections separated from each other.

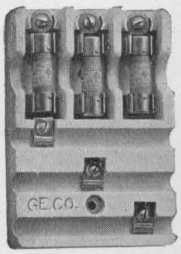
Metal caps are soldered to the ends of the fusible element and are tapped to engage the screw threads on the contact blades. This construction renders very easy the renewal of the fuse when it is blown. It is necessary only to unsolder the metal caps from the contact blades and replace the blown fuse link with a new one.



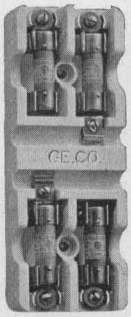
EXPLODED VIEW OF 100 AMPERE 600 VOLT ROLLED RIBBON TYPE N. E. C. S. ENCLOSED FUSE

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

250 Volt 30 Ampere Cut-Outs



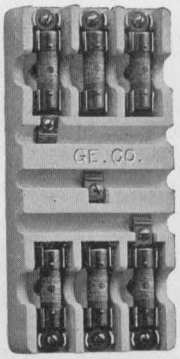
Cat. No. 34373



Cat. No. 34369



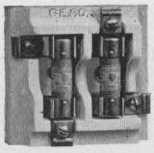
Cat. No. 34370

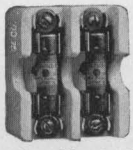


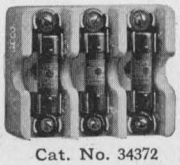
Cat. No. 34374



Cat. No. 34368


Cat. No. 34371


Cat. No. 34367


Cat. No. 34372

Order by the package, if possible.

*Cat. No.	Description	Package Quantity	List Price
36802	Single-pole, main line	50	$0.40
34367	Two-wire, main line	50	.60
34368	Two-wire, single branch	50	.80
34369	Two-wire, double branch	25	1.30
34371	Two-wire, crossover	50	.80
34370	Three to two-wire, double branch	25	1.50
34372	Three-wire, main line	50	.90
34373	Three-wire, single branch	50	1.35
34374	Three-wire, double branch	25	2.25

*Cat. No. of cut-outs does not include fuses.

Fuses for Use with 250 Volt 30 Ampere Cut-Outs

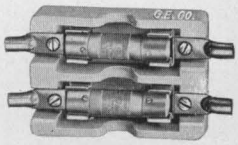


Length over ferrules, 2 inches. Diameter of tube, ½ inch. Diameter of ferrule, $\frac{9}{16}$ inch. Order by the package, if possible.

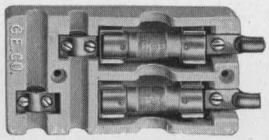
Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
34949	3	100	$0.25	34954	15	100	$0.25
34950	5	100	.25	34955	20	100	.25
34951	8	100	.25	34956	25	100	.25
34952	10	100	.25	34957	30	100	.25
34953	12	100	.25				

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

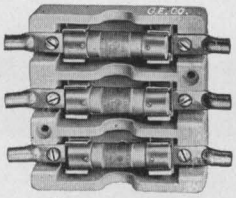
250 Volt, 60 Ampere Cut-Outs



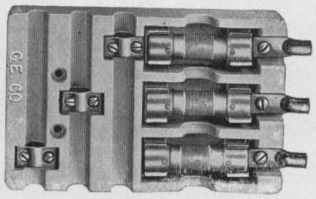
Cat. No. 34376



Cat. No. 34378



Cat. No. 34377



Cat. No. 34379

Order by the package if possible.

*Cat. No.	Description	Package Quantity	List Price
36803	Single-pole, main line	50	$0.75
34376	Two-wire, main line	50	1.60
34377	Three-wire, main line	50	2.35
34378	Two-wire, single branch	50	2.10
34379	Three-wire, single branch	50	3.00
36806	Two-wire, double branch	25	4.00
36805	Three to two-wire, double branch	25	5.00
36804	Three-wire, double branch	10	8.00

*Cat. No. of cut-out does not include fuses.

Fuses for Use with 250 Volt 60 Ampere Cut-Outs



Length over ferrules, 3 inches. Diameter over tube, $\frac{3}{4}$ inch. Diameter of ferrule, $\frac{13}{16}$ inch.

Order by the package, if possible.

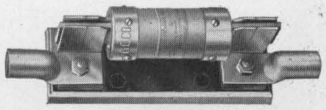
Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
34958	35	100	$0.33	34961	50	100	$0.33
34959	40	100	.33	34962	55	100	.33
34960	45	100	.33	34963	60	100	.33

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

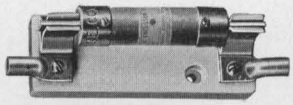
250 Volt Enclosed Fuse Cut-Outs, 100 Amperes and Upwards



Cat. No. 34971



Cat. No. 34982



Cat. No. 34964

Order by the package if possible.

*Cat. No.	Description	Volts	Package Quantity	List Price
34964	Single-pole, cut-out, 61-100 amperes	250	50	**$1.40**
36801	Double-pole, cut-out, 61-100 amperes	250	50	**2.80**
36800	Triple-pole, cut-out, 61-100 amperes	250	25	**4.00**
34971	Single-pole, cut-out, 101-200 amperes	250	50	**2.75**
34982	Single-pole, cut-out, 201-400 amperes	250	25	**7.00**
36471	Single-pole, cut-out, 401-600 amperes	250	10	**11.00**

*Cat. No. of cut-out does not include fuses.

Fuses for 250 Volt 100 Ampere Cut-Outs, Cat. Nos. 34964, 36801, 36800



Length over terminals, $5\frac{7}{8}$ inches. Length over ferrules, $3\frac{7}{8}$ inches. Diameter of tube, 1 inch. Width of terminals, $\frac{3}{4}$ inch. Thickness of terminals, $\frac{1}{8}$ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
34965	65	50	**$0.86**	**$0.57**	34968	80	50	**$0.86**	**$0.57**
34966	70	50	**.86**	**.57**	34969	90	50	**.86**	**.57**
34967	75	50	**.86**	**.57**	34970	100	50	**.86**	**.57**

Minimum refilling quantity of fuses, standard package, one capacity.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Fuses for 250 Volt 200 Ampere Cut-Out, Cat. No. 34971



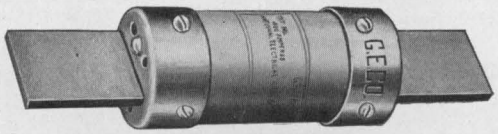
Length over terminals, 7 $\frac{3}{16}$ inches. Length over ferrules 4 $\frac{5}{16}$ inches. Diameter of tube, 1 $\frac{1}{2}$ inches. Width of terminals, 1 $\frac{1}{8}$ inches. Thickness of terminals, $\frac{3}{16}$ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
34972	110	25	**$2.00**	**$0.90**	34977	160	25	**$2.00**	**$0.90**
34973	120	25	**2.00**	**.90**	34978	170	25	**2.00**	**.90**
34974	130	25	**2.00**	**.90**	34979	180	25	**2.00**	**.90**
34975	140	25	**2.00**	**.90**	34980	190	25	**2.00**	**.90**
34976	150	25	**2.00**	**.90**	34981	200	25	**2.00**	**.90**

Minimum refilling quantity of fuses, standard package, one capacity.

Fuses for 250 Volt 400 Ampere Cut-Out, Cat. No. 34982



Length over terminals, 8 $\frac{3}{4}$ inches. Length over ferrules, 4 $\frac{5}{8}$ inches. Diameter of tube, 2 inches. Width of terminals, 1 $\frac{5}{8}$ inches. Thickness of terminals, $\frac{1}{4}$ inch.

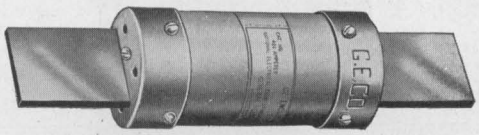
Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
34983	225	25	**$3.40**	**$1.48**	34987	325	25	**$3.40**	**$1.48**
34984	250	25	**3.40**	**1.48**	34988	350	25	**3.40**	**1.48**
34985	275	25	**3.40**	**1.48**	34989	375	25	**3.40**	**1.48**
34986	300	25	**3.40**	**1.48**	34990	400	25	**3.40**	**1.48**

Minimum refilling quantity of fuses, standard package, one capacity.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Fuses for 250 Volt 600 Ampere Cut-Out, Cat. No. 36471



Length over terminals, 10½ inches. Length over ferrules, 5⅝ inches. Diameter of tube, 2½ inches. Width of terminals, 2 inches. Thickness of terminals, ¼ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
36472	425	10	**$5.20**	**$2.00**	36476	525	10	**$5.20**	**$2.00**
36473	450	10	**5.20**	**2.00**	37754	550	10	**5.20**	**2.00**
36474	475	10	**5.20**	**2.00**	36477	575	10	**5.20**	**2.00**
36475	500	10	**5.20**	**2.00**	36478	600	10	**5.20**	**2.00**

Minimum refilling quantity of fuses, standard package, one capacity.

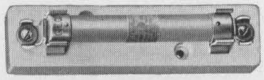
600 Volt Single Pole Enclosed Fuse Cut-Outs, 30 Amperes and Upwards



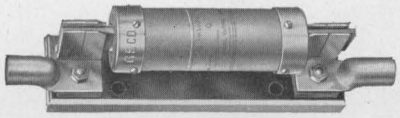
Cat. No. 35101



Cat. No. 21474



Cat. No. 34991



Cat. No. 35125



Cat. No. 35114

Order by the package, if possible.

*Cat. No.	Description	Volts	Package Quantity	List Price
34991	Single-pole, cut-out, 3- 30 amperes	600	50	**$ 0.60**
35101	Single-pole, cut-out, 31- 60 amperes	600	50	**.90**
21474	Single-pole, cut-out, 61-100 amperes	600	50	**1.75**
35114	Single-pole, cut-out, 101-200 amperes	600	50	**3.00**
35125	Single-pole, cut-out, 201-400 amperes	600	25	**8.00**
36479	Single-pole, cut-out, 401-600 amperes	600	10	**12.00**

*Cat. No. of cut-out does not include fuse.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Fuses for 600 Volt 30 Ampere Cut-Out, Cat. No. 34991



Length over ferrules, 5 inches. Diameter of tube, ¾ inch. Diameter of ferrule, 13/16 inch. Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
34992	3	100	$0.38	34997	15	100	$0.38
34993	5	100	.38	34998	20	100	.38
34994	8	100	.38	34999	25	100	.38
34995	10	100	.38	35100	30	100	.38
34996	12	100	.38				

Fuses for 600 Volt 60 Ampere Cut-Out, Cat. No. 35101



Length over ferrules, 5½ inches. Diameter of tube, 1 inch. Diameter of ferrule, 1 1/16 inch. Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
35102	35	100	$0.44	35105	50	100	$0.44
35103	40	100	.44	35106	55	100	.44
35104	45	100	.44	35107	60	100	.44

Fuses for 600 Volt 100 Ampere Cut-Out, Cat. No. 21474



Length over terminals, 7⅞ inches. Length over ferrules, 5⅞ inches. Diameter of tube, 1¼ inches. Width of terminals, ¾ inch. Thickness of terminals, ⅛ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
35108	65	50	$1.20	$0.80	35111	80	50	$1.20	$0.80
35109	70	50	1.20	.80	35112	90	50	1.20	.80
35110	75	50	1.20	.80	35113	100	50	1.20	.80

Minimum refilling quantity of fuses, standard package, one capacity.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Fuses for 600 Volt 200 Ampere Cut-Out, Cat. No. 35114



Length over terminals, $9\frac{11}{16}$ inches. Length over ferrules, $6\frac{13}{16}$ inches. Diameter of tube, $1\frac{3}{4}$ inches. Width of terminals, $1\frac{1}{8}$ inches. Thickness of terminals, $\frac{3}{16}$ in.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
35115	110	25	**$2.50**	**$1.20**	35120	160	25	**$2.50**	**$1.20**
35116	120	25	**2.50**	**1.20**	35121	170	25	**2.50**	**1.20**
35117	130	25	**2.50**	**1.20**	35122	180	25	**2.50**	**1.20**
35118	140	25	**2.50**	**1.20**	35123	190	25	**2.50**	**1.20**
35119	150	25	**2.50**	**1.20**	35124	200	25	**2.50**	**1.20**

Fuses for 600 Volt 400 Ampere Cut-Out, Cat. No. 35125



Length over terminals, $11\frac{3}{4}$ inches. Length over ferrules, $7\frac{5}{8}$ inches. Diameter of tube, $2\frac{1}{2}$ inches. Width of terminals, $1\frac{5}{8}$ inches. Thickness of terminals, $\frac{1}{4}$ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
35126	225	25	**$5.25**	**$2.00**	35130	325	25	**$5.25**	**$2.00**
35127	250	25	**5.25**	**2.00**	35131	350	25	**5.25**	**2.00**
35128	275	25	**5.25**	**2.00**	35132	375	25	**5.25**	**2.00**
35129	300	25	**5.25**	**2.00**	35133	400	25	**5.25**	**2.00**

Minimum refilling quantity of fuses, standard package, one capacity.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Fuses for 600 Volt, 600 Ampere Cut-Out, Cat. No. 36479



Length over terminals, 13½ inches. Length over ferrules, 8⅝ inches. Diameter of tube, 3 inches. Width of terminals, 2 inches. Thickness of terminals, ¼ inch.

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
36480	425	10	**$8.00**	**$3.00**	36484	525	10	**$8.00**	**$3.00**
36481	450	10	**8.00**	**3.00**	37755	550	10	**8.00**	**3.00**
36482	475	10	**8.00**	**3.00**	36485	575	10	**8.00**	**3.00**
36483	500	10	**8.00**	**3.00**	36486	600	10	**8.00**	**3.00**

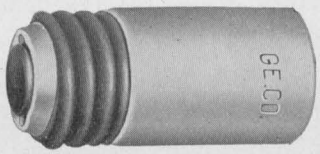
Minimum refilling quantity of fuses, standard package, one capacity.

GE Renewable Fuse Plugs and Reloads, 30 and 60 Amperes, 250 Volts

This device consists of a brass tube, the exposed parts of which are insulated by a porcelain shell. In the upper end is fitted a spring clip to receive the ferrule contact of the reload; the ferrule on the other ends forms the center contact of the plug. It will be readily seen that by the use of this device the plug may be made to serve for a large range of fuse capacities.



Cat. No. 36093



Cat. No. 36094

FUSE PLUG CASINGS

Order by the package, if possible.

Cat. No.	Amperes	Volts	Package Quantity	List Price
36093	3-30	250	100	**$0.18**
36094	31-60	250	100	**.36**

Cat. No. of casing does not include reload.

NATIONAL ELECTRICAL CODE STANDARD ENCLOSED FUSE CUT-OUTS AND FUSES

Reloads for 30 Ampere, 250 Volt Renewable Fuse Plugs



Cat. No. 34957



Cat. No. 34963

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
34949	3	100	**$0.25**	34954	15	100	**$0.25**
34950	5	100	**.25**	34955	20	100	**.25**
34951	8	100	**.25**	34956	25	100	**.25**
34952	10	100	**.25**	34957	30	100	**.25**
34953	12	100	**.25**				

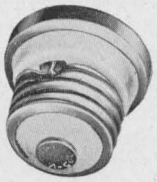
Reloads for 60 Ampere, 250 Volt Renewable Fuse Plugs

Order by the package, if possible.

34958	35	100	**$0.33**	34961	50	100	**$0.33**
34959	40	100	**.33**	34962	55	100	**.33**
34960	45	100	**.33**	34963	60	100	**.33**

Standard GE Fuse Plugs, 30 Amperes, 125 Volts

These plugs are now fitted with mica windows, a feature which allows the operator to tell at a glance which fuse on the circuit has blown. The upper cap is crimped on to the porcelain instead of threaded as heretofore.





Cat. No. 66329

Order by the package, if possible.

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
66327	3	500	**$0.07**	66335	15	500	**$0.07**
66329	6	500	**.07**	66337	20	500	**.07**
66331	10	500	**.07**	66339	25	500	**.07**
66333	12	500	**.07**	66341	30	500	**.07**

Brass Cap Fuse Plugs one cent advance on above list.
Standard package consists of **500 each size only.**

Not Over 125 Volts

"General Electric Company, Schenectady, N. Y., 'Edison Plug Fuse,' porcelain, with mica or brass cover. The Edison Plug Fuse is not approved for over 125 volts except on Edison three-wire systems with grounded neutral, where the difference of potential between the outside wires does not exceed 250 volts."

The above extract is taken from page 8 of the April, 1905, list of approved Electrical Fittings, issued by the Underwriters' National Electric Association.

FUSE CLIPS AND TERMINALS

For GE National Electrical Code Standard Enclosed Fuse Cut-Outs

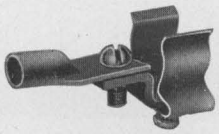
Front Connected



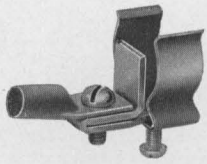
Cat. No. 36487



Cat. No. 36488



Cat. No. 36489



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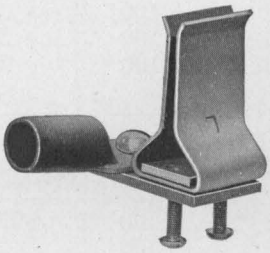

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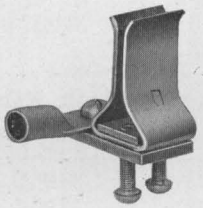
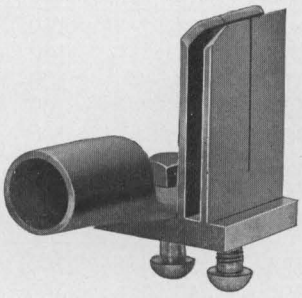


Cat. No. 36491



Cat. No. 36493

Fuse Clips and Terminals, Complete

Cat. No.	Rating of Cut-out		Standard Package	List Price	Cat. No.	Rating of Cut-out		Standard Package	List Price
	Amp.	Volts				Amp.	Volts		
36487	30	250	100	**$0.12**	36491	100	250 and 600	100	**$0.48**
36488	30	600	100	**.14**	36492	200	250 and 600	100	**1.00**
36489	60	250	100	**.20**	36493	400	250 and 600	50	**3.00**
36490	60	600	100	**.24**	36776	600	250 and 600	20	**5.00**
Fuse Clips									
36501	30	250	100	**$2.50**	36505	100	250 and 600	100	**$14.00**
36502	30	600	100	**5.00**	36506	200	250 and 600	100	**32.00**
36503	60	250	100	**6.50**	42861	400	250 and 600	50	**85.00**
36504	60	600	100	**7.00**	36777	600	250 and 600	20	**170.00**
Terminals									
32550	60	250 and 600	100	**$0.08**	32554	400	250 and 600	50	**$0.50**
32551	100	250 and 600	100	**.12**	36050	600	250 and 600	20	**.80**
51884	200	250 and 600	100	**.24**					

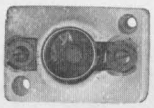
Back Connected

Fuse Clips, Complete, with Studs

36807	30	250	100	**$0.44**	39437	100	250 and 600	100	**$2.00**
39435	30	600	100	**.48**	39438	200	250 and 600	100	**4.00**
36808	60	250	100	**.60**	39439	400	250 and 600	50	**7.00**
39436	60	600	100	**.65**	39440	600	250 and 600	20	**11.00**

STANDARD PLUG FUSE CUT-OUTS

For 125 and 250 Volts



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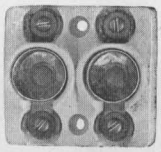

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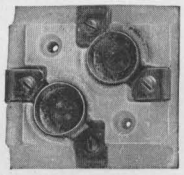

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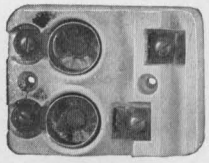

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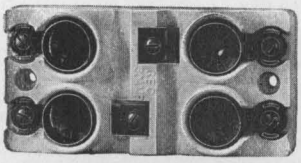

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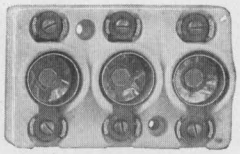
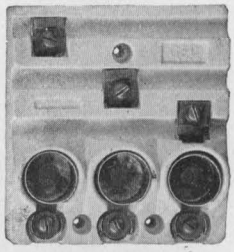


Cat. No. 62165



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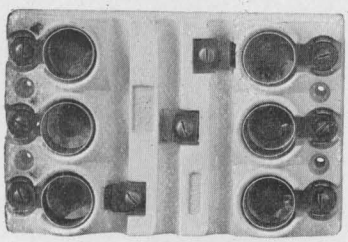
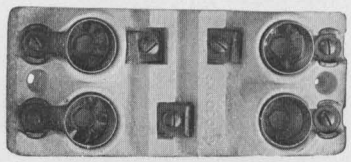


Cat. No. 62135



Cat. No. 62199

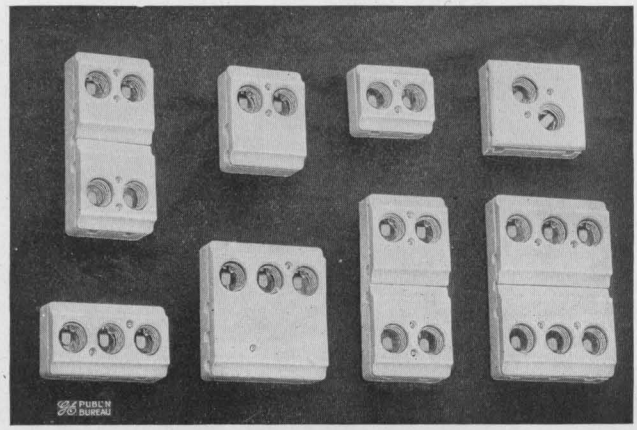
These cut-outs are for the protection of circuits having a maximum current of 30 amperes and maximum potentials of 125 and 250 volts. The standard GE fuse plugs (listed on page 235) should be used for the protection of 125 volt circuits. For the protection of 250 volt circuits the renewable fuse plugs listed on page 234 should be used.

Order by the package, if possible.

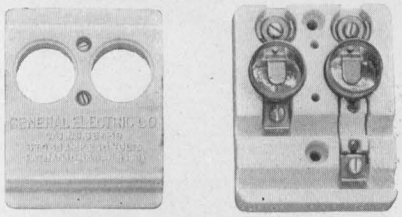
*Cat. No.	Description	Package Quantity	List Price
62569	Single-pole, main line cut-out . . .	150	**$0.18**
62965	Double-pole, main line cut-out . . .	150	**.30**
8020	Double-pole, single or double cross-over branch cut-out	150	**.36**
61935	Double-pole, single-branch cut-out . .	100	**.32**
62587	Double-pole, double-branch cut-out . .	100	**.62**
62165	Three-wire, main line cut-out . . .	100	**.44**
8042	Three-wire, single-branch cut-out . .	75	**.54**
62135	Three-wire, double-branch cut-out . .	50	**.90**
62199	Three to two-wire double branch cut-out	100	**.64**

*Cat. No. cut-out does not include fuse plugs.

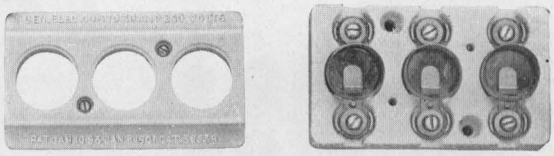
STANDARD PLUG FUSE CUT-OUTS FOR 125 AND 250 VOLTS



PLUG CUT-OUTS EQUIPPED WITH PORCELAIN COVERS



Cat. No. 36539



Cat. No. 36538

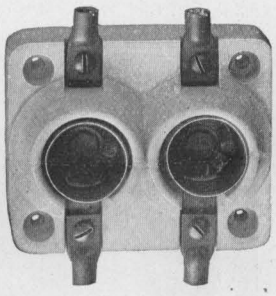
With Covers

*Cat. No.	Description	Std. Pkg.	List Price
36537	Two-wire main line	150	$0.36
36539	Two-wire single branch	100	.44
36543	Two-wire double branch	100	.81
36544	Single or double cross-over	150	.53
36538	Three-wire main line	100	.50
36540	Three-wire single branch	75	.84
36541	Three to two-wire double branch	100	.88
36542	Three to three-wire double branch	50	1.36

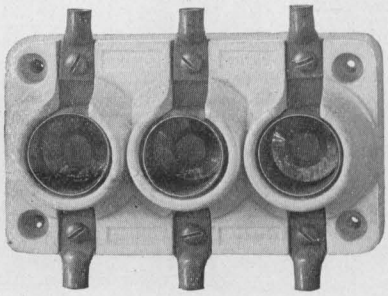
*Cat. No. of cut-outs does not include fuse plugs.

STANDARD PLUG FUSE CUT-OUTS FOR 250 VOLTS, 60 AMPERES

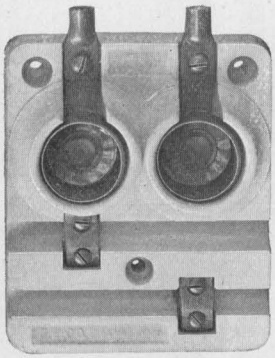
These cut-outs are perfectly adapted to the protection of circuits having a maximum current of 60 amperes, and a maximum potential of 250 volts. Renewable fuse plugs for these cut-outs are listed on page 234.



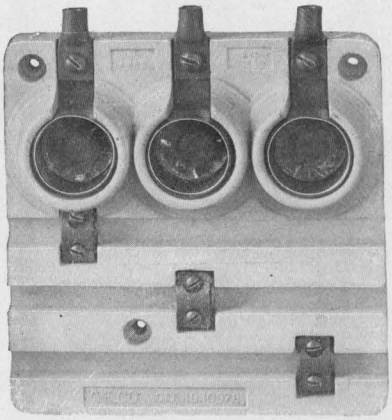
Cat. No. 10975



Cat. No. 10976



Cat. No. 10977



Cat. No. 10978

Order by the package, if possible.

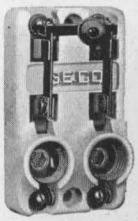
*Cat. No.	Description	Package Quantity	List Price
10975	Double-pole, main line cut-out	50	$1.50
10976	Triple-pole, main line cut-out	50	2.25
10977	Double-pole, single branch cut-out	50	1.75
10978	Triple-pole, single branch cut-out	50	3.00

*Cat. No. of cut-out does not include fuse plugs.

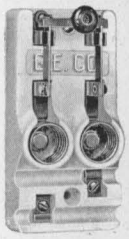
COMBINED SWITCH AND PLUG CUT-OUTS

Lever Type

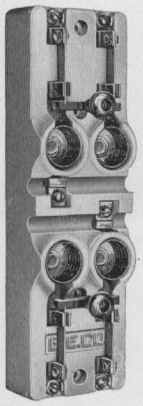
For 125-Volt Service


Cat. No. 35367


Cat. No. 42869


Cat. No. 42689


Cat. No. 42688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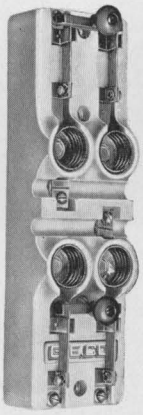
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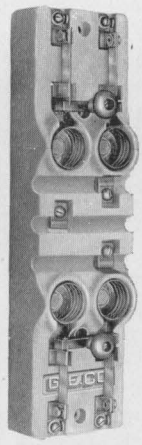
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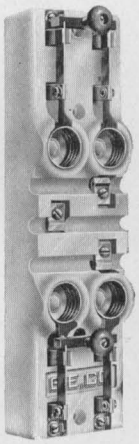
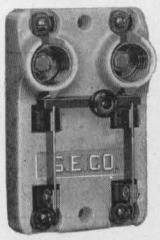
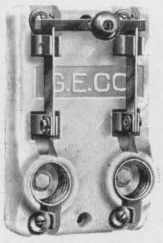

Cat. No. 42424

Cat. No.	Description	Standard Package	List Price
35367	D. P. Entrance switch, 25 amperes. Bottom service connections	100	$0.90
42869	D. P. Entrance switch, 25 amperes. Top service connections	100	.90
42689	2 to 2-wire, single branch, mains vertical, 15 amperes	100	1.00
42688	2 to 2-wire, single branch, mains horizontal, 15 amperes	100	1.00
42423	2 to 2-wire, double branch, mains vertical, 15 amperes	50	2.00
42422	2 to 2-wire, double branch, mains horizontal, 15 amperes	50	2.00
42425	3 to 2-wire, double branch, mains vertical, 15 amperes	50	2.10
42424	3 to 2-wire, double branch, mains horizontal, 15 amperes	50	2.10

For 250-Volt Service


Cat. No.42977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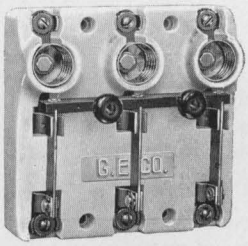
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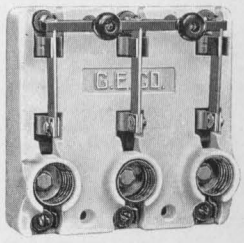
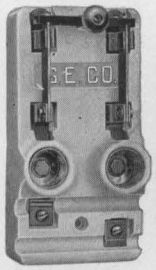

Cat. No. 35368

Cat. No.	Description	Std. Pkg.	List Price
42976	D. P. Entrance Switch, 30 amperes. Bottom service connections	100	$1.00
42977	D. P. Entrance Switch, 30 amperes. Top service connections	100	1.00
35368	T. P. Entrance Switch, 30 amperes. Bottom service connections	50	1.40
42978	T. P. Entrance Switch, 30 amperes. Top service connections	50	1.40

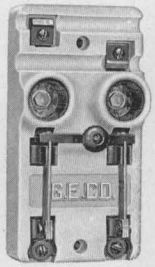
COMBINED SWITCH AND PLUG CUT-OUT

Lever Type

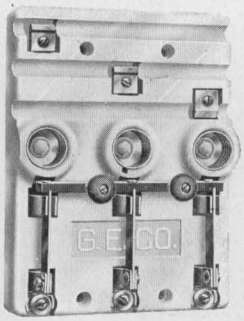
For 250-Volt Service



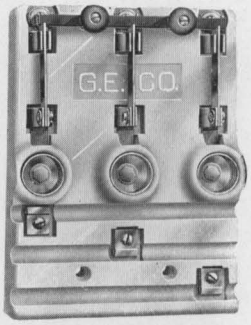
Cat. No. 35369



Cat. No. 42979



Cat. No. 42980

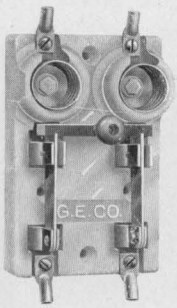


Cat. No. 35370

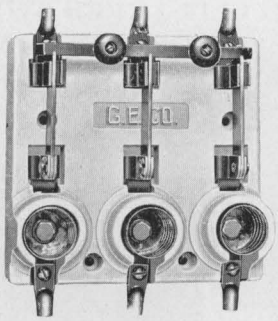
Cat. No.	Description	Std. Pkg.	List Price
42979	2 to 2-wire, single branch, mains vertical, 30 amperes	50	**$1.10**
35369	2 to 2-wire, single branch, mains horizontal, 30 amperes	50	**1 10**
42980	3 to 3-wire, single branch, mains vertical, 30 amperes	25	**2 00**
35370	3 to 3-wire, single branch, mains horizontal, 30 amperes	25	**2.00**



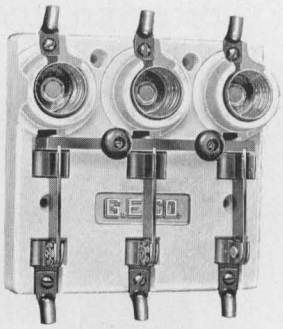
Cat. No. 35371



Cat. No. 42868



Cat. No. 35372



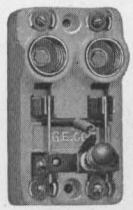
Cat. No. 42867

Cat. No.	Description	Std. Pkg	List Price
35371	D.P. Entrance Switch, 60 amperes, bottom service connections	50	**$3.25**
42868	D.P. Entrance Switch, 60 amperes, top service connections	50	**3.25**
35372	T.P. Entrance Switch, 60 amperes, bottom service connections	25	**5.00**
42867	T.P. Entrance Switch, 60 amperes, top service connections	25	**5.00**

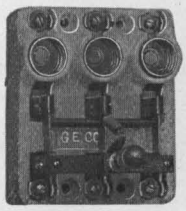
COMBINED SWITCH AND PLUG CUT-OUTS

For 125 and 250-Volt Service

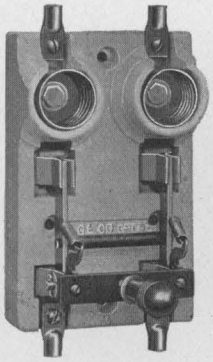
Quick Break Type



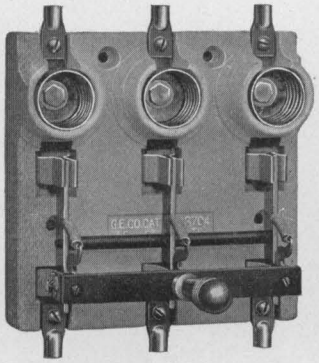
Cat. No. 57711



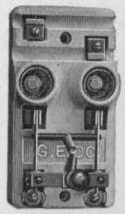
Cat. No. 57712



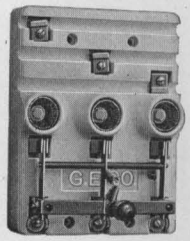
Cat. No. 28703



Cat. No. 28704



Cat. No. 27746

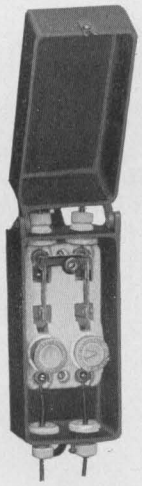


Cat. No. 27747

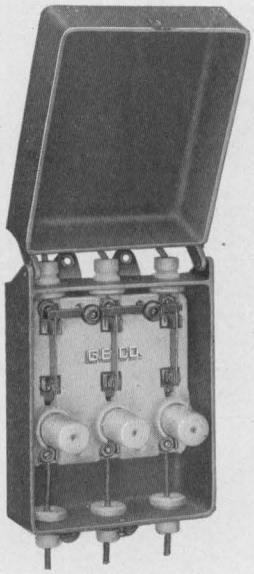
Cat. No.	Description	Standard Package	List Price
57711	DP entrance switch 25A–125V. Top service connections	50	**$1 70**
57712	TP entrance switch 25A–125V. Top service connections	25	**2 50**
27746	2 to 2 wire single branch 30A–250V mains horizontal	50	**2 25**
27747	3 to 3 wire single branch 30A–250V mains horizontal	25	**3 00**
28703	DP entrance switch 60A–250V. Top service connections	50	**5 00**
28704	TP entrance switch 60A–250V. Top service connections	25	**8 00**

COMBINED PUNCHED CLIP LEVER SWITCHES AND PLUG CUT-OUTS IN IRON BOXES

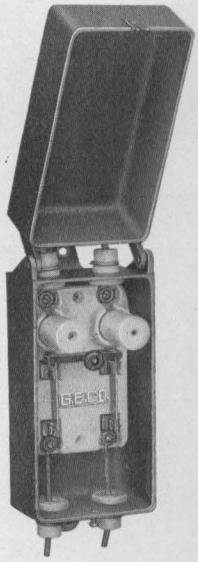
For 125 and 250-Volt Service



Cat. No. 45008



Cat. No. 45012



Cat. No. 45011

These devices consist of the General Electric Company's combined switch and cut-outs mounted in substantial iron boxes. Each box is provided with porcelain bushings for the

COMBINED PUNCHED CLIP LEVER SWITCHES AND PLUG CUT-OUTS IN IRON BOXES—Continued

entrance holes. Also a means by which the cover may be provided with a sealing wire to prevent its being opened by unauthorized parties.

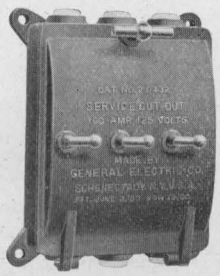
The boxes should always be installed with the hinges at the top, so the covers will be self-closing.

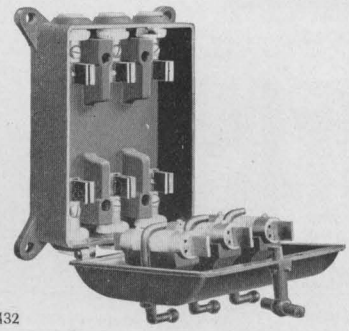
Although regularly supplied with porcelain bushings for the entrance holes, the Cat. Nos. 45008 to 45017 boxes can be drilled at each end with single holes for metal conduit.

These are not carried in stock, but are supplied only when so ordered. The order must state the size of conduit and whether one or both ends of the box are to be drilled for it. The prices are the same as for the standard boxes.

*Cat. No.	Description	Standard Package	List Price
45008	Iron Box with Cat. No. 35367 DP 25A-125V. Bottom service connections	25	$3.00
45009	" " " " 42869 DP 25A-125V. Top " "	25	3.00
45010	" " " " 42976 DP 30A-250V. Bottom " "	25	3.50
45011	" " " " 42977 DP 30A-250V. Top " "	25	3.50
45012	" " " " 35368 TP 30A-250V. Bottom " "	15	4.50
45013	" " " " 42978 TP 30A-250V. Top " "	15	4.50
45014	" " " " 35371 DP 60A-250V. Bottom " "	10	7.25
45015	" " " " 42868 DP 60A-250V. Top " "	10	7.25
45016	" " " " 35372 TP 60A-250V. Bottom " "	10	9.50
45017	" " " " 42867 TP 60A-250V. Top " "	10	9.50

*Cat. No. of switch does not include fuses.
Fuse plugs are listed on page 235.
Enclosed fuses and casings on pages 234-235





Cat. No. 29432

This service switch takes National Electrical Code Standard Enclosed Fuses, of capacity ranging from 65 to 100 amperes, 250 volts. These fuses are held to the cover by three auxiliary handles which may be operated independently, thus enabling one or more of the fuses to be withdrawn and the cut-out re-fused without the operater coming in contact with the live parts of the switch. Upon removing one of the fuses, this box may be used for two-wire service, thus making the one box answer all purposes.

This box is especially arranged for sealing, so that unless the sealing wire is broken the box cannot be opened after once being installed.

*Cat. No.	Description	List Price
29432	100 amperes, 125 volts	$11.00

*Cat. No. of switch does not include fuses.

GE ENCLOSED FUSE CUT-OUTS

The cut-outs and fuses listed on the following pages were standard previous to the adoption of the National Code cut-outs and fuses listed on pages 228 to 234 inclusive. They are catalogued purely as a means of convenience to customers who have cut-outs of the older style installed on their premises and who, in purchasing new cut-outs, desire to preserve the symmetry of their boards, etc.

The General Electric Company strongly recommends the purchase of the New Code devices.

GE ENCLOSED FUSES

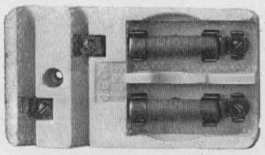
15 Amperes, 250 Volts, for Old Code Cut-Outs, Cat. Nos. 29390-29397 Inclusive

Cat. No.	Rated Capacity	Package Quantity	List Price
33561	3 amperes	100	$0.18
33562	5 amperes	100	.18
33563	8 amperes	100	.18
33564	10 amperes	100	.18
33565	15 amperes	100	.18

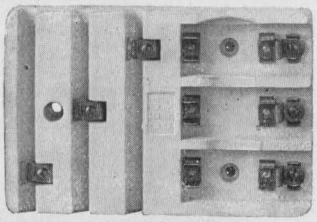
NOTE.—Length of fuse is $1\frac{3}{4}$"; diameter of cap, $\frac{9}{16}$".

30 to 400 Amperes, 250 and 500 Volts

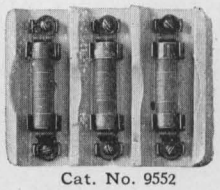
Previous to the adoption of the National Code cut-outs, the cut-outs listed on this page were standard.



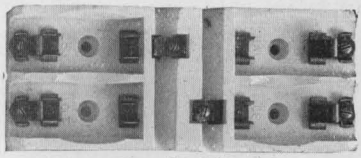
Cat. No. 9553



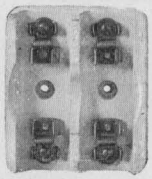
Cat. No. 9554



Cat. No. 9552



Cat. No. 51760



Cat. No. 9551



Cat. No. 21466

Order by the package, if possible.

Cat. No.	Amps.	Description	Volts	Package Quantity	List Price
9551	30	Double-pole main line cut-out	250	50	$0.85
9552	30	Triple-pole main line cut-out	250	50	1.30
9553	30	Double-pole single branch cut-out	250	50	1.00
9554	30	Triple-pole single branch cut-out	250	50	1.85
51760	30	Double-pole double branch cut-out	250	50	1.50
51852	30	Single-pole main line cut-out (Instrument protective)	250	50	.40
23880	60	Single-pole cut-out	250	50	.75
21466	100	Single-pole cut-out	250	50	1.40
25099	200	Single-pole cut-out	250	50	4.00
26397	400	Single-pole cut-out	250	10	10.00
23886	10	Single-pole cut-out	500	50	.64
11466	30	Single-pole cut-out	500	50	.80
21474	100	Single-pole cut-out	500	50	1.75
25738	200	Single-pole cut-out	500	25	4.00
27300	400	Single-pole cut-out	500	10	10.00

Catalogue Number of cut-out does not include fuses.

GE ENCLOSED FUSES



Fig. 1

For Use in 250 Volt Cut-Outs, Cat. Nos. 9551, 9552, 9553, 9554, 51760

Length of fuse, $2\frac{1}{2}$″; diam. of cap, $\frac{5}{8}$″.

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
9555	3	100	$0.25	9559	20	100	$0.25
9556	6	100	.25	9560	25	100	.25
9557	10	100	.25	9561	30	100	.25
9558	15	100	.25				

For Use in 60 Ampere, 250 Volt Single-Pole Cut-Out, Cat. No. 23880

Length of fuse, $4\frac{1}{8}$″; diam. of cap, $\frac{15}{16}$″.

23881	30	100	$0.33	21468	50	100	$0.33
23882	35	100	.33	23884	55	100	.33
21467	40	100	.33	23885	60	100	.33
23883	45	100	.33				

For Use in 100 Ampere, 250 Volt Single-Pole Cut-Out, Cat. No. 21466

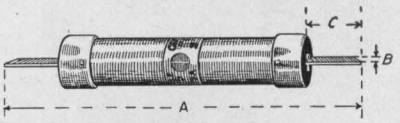


Fig. 2

Length over blades, $6\frac{1}{8}$″; width of blade, $\frac{3}{4}$″; length of blade, $1\frac{3}{16}$″.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
21469	60	50	$0.86	$0.57	21472	90	50	$0.86	$0.57
21470	70	50	.86	.57	21473	100	50	.86	.57
21471	80	50	.86	.57					

For Use in 200 Ampere 250 Volt Single-Pole Cut-Out, Cat. No. 25099

Length over blades, $7\frac{5}{8}$″; width of blade, 1″; length of blade, $1\frac{3}{8}$″.

25596	100	25	$2.00	$0.90	25599	175	25	$2.00	$0.90
25597	125	25	2.00	.90	25737	200	25	2.00	.90
25598	150	25	2.00	.90					

For Use in 400 Ampere, 250 Volt Cut-Out, Cat. No. 26397

Length over blades, $8\frac{7}{8}$″; width of blade, $1\frac{3}{8}$″; length of blade, $1\frac{7}{8}$″.

26398	200	25	$3.40	$1.48	26749	325	25	$3.40	$1.48
26399	225	25	3.40	1.48	26750	350	25	3.40	1.48
26746	250	25	3.40	1.48	26751	375	25	3.40	1.48
26747	275	25	3.40	1.48	26752	400	25	3.40	1.48
26748	300	25	3.40	1.48					

GE ENCLOSED FUSES

For Use in 10 Ampere, 500 Volt Single-Pole Cut-Out, Cat. No. 23886



Fig. 1

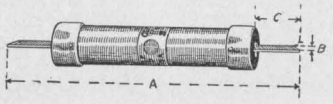


Fig. 2

Length of fuse, $4\frac{11}{16}$"; diameter of cap, $\frac{9}{16}$".

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
23887	1	100	$0.38	21462	6	100	$0.38
23888	2	100	.38	9562	10	100	.38
21461	3	100	.38				

For use in 30 Ampere 500 Volt Single-Pole Cut-Out, Cat. No. 11466

Length of fuse, $5\frac{1}{4}$"; diameter of cap, $\frac{13}{16}$".

23889	10	100	$0.38	51876	25	100	$0.38
21463	15	100	.38	21465	30	100	.38
21464	20	100	.38				

For Use in 100 Ampere, 500 Volt Single-Pole Cut-Out, Cat. No. 21474

Length over blades, 8"; width of blade, $\frac{3}{4}$"; length of blade $1\frac{3}{16}$".

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
23890	30	50	$1.20		21477	60	50	$1.20	$0.80
23208	35	50	1.20		21478	70	50	1.20	.80
21475	40	50	1.20		21479	80	50	1.20	.80
23891	45	50	1.20		21480	90	50	1.20	.80
21476	50	50	1.20		21481	100	50	1.20	.80
23892	55	50	1.20						

For Use in 200 Ampere, 500 Volt Single-Pole Cut-Out, Cat. No. 25738

Length over blades, $8\frac{7}{8}$"; width of blade, 1"; length of blade, $1\frac{3}{8}$".

25739	100	25	$2.50	$1.20	25742	175	25	$2.50	$1.20
25740	125	25	2.50	1.20	25743	200	25	2.50	1.20
25741	150	25	2.50	1.20					

GE ENCLOSED FUSES

For Use in 400 Ampere, 500 Volt Cut-Out, Cat. No. 27300



Fig. 1

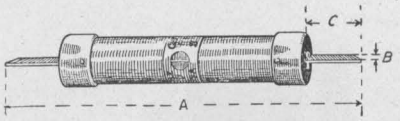


Fig. 2

Length over blades, $10\frac{3}{4}''$; width of blade, $1\frac{3}{8}''$; length of blade, $\frac{7}{8}''$.

Cat. No.	Ampere Capacity	Package Quantity	List Price		Cat. No.	Ampere Capacity	Package Quantity	List Price	
			Fuse	Refilling				Fuse	Refilling
24342	200	25	**$5.25**	**$2.00**	26755	325	25	**$5.25**	**$2.00**
26753	225	25	**5.25**	**2.00**	26756	350	25	**5.25**	**2.00**
24343	250	25	**5.25**	**2.00**	26757	375	25	**5.25**	**2.00**
26754	275	25	**5.25**	**2.00**	22979	400	25	**5.25**	**2.00**
24344	300	25	**5.25**	**2.00**					

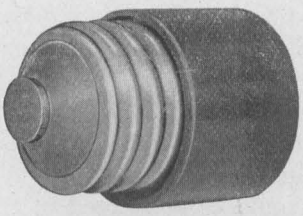
For Use in Instrument Protective Cut-Out, Cat. No. 51852

Length of fuse, $2\frac{1}{2}''$; diameter of cap, $\frac{5}{8}''$.

Cat. No.	Package Quantity	List Price
*51853	100	**$0.25**

*Also used with 500 volt Electrostatic Ground Detectors.

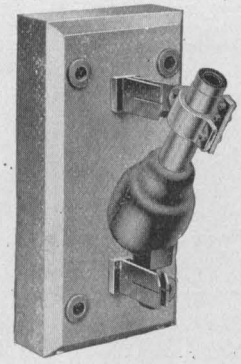
GE Enclosed Fuse Plugs, 60 Amperes, 250 Volts



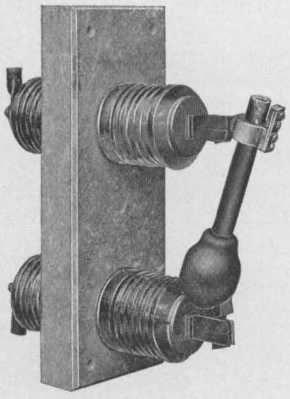
Cat. No. 10979

Cat. No.	Ampere Capacity	Package Quantity	List Price	Cat. No.	Ampere Capacity	Package Quantity	List Price
10979	10	50	**$0.50**	10982	40	50	**$0.50**
10980	20	50	**.50**	10983	50	50	**.50**
10981	30	50	**.50**	10984	60	50	**.50**

TYPE T, FORMS D AND D 2 FUSE HOLDERS



FORM D HOLDER



FORM D 2 HOLDER

The Type T, Forms D and D 2 fuse holders for 2300 and 6600 volt system supersede the expulsion type of holder and will be used in the future on all switchboards requiring high potential fuses.

Fuse holders of this type for higher voltages can be made to suit special requirements.

This fuse holder is of small size, but so designed that it is capable of rupturing more energy under short circuit conditions than any other similar device heretofore placed on the market.

The general appearance of these holders is shown in the accompanying illustrations.

The body of the holder consists of an insulated metallic chamber, into the upper end of which is screwed a fibre tube. That part of the fuse located in the chamber is of smaller cross section than the remainder to insure rupturing at that point.

The expansion of the gases formed by the arc in the chamber expels the fused metal and effectually opens the circuit.

New fuses can be readily inserted in the holder by removing a screw plug located in the bottom of the bulb.

The ampere rating corresponds to the continuous current carrying capacity, and the rupturing point is approximately 60% greater.

Fuses for operating on small overloads can be manufactured upon order.

The holder is connected in circuit by means of blades fastened to either end, which fit into clips mounted on the switchboard panel or base.

The lower stud of the holder should be connected to the source of power and the upper one to the load.

The advantage of this method of support lies in the fact that spare fuse holders can be kept on hand ready for instant replacement of ruptured fuses. The complete device is compact, substantial, easy to handle, and may be located in any convenient place.

The holders can be supplied in groups of two, three or four, mounted on bases or singly, without bases for switchboard mounting.

The 2300 volt holder should always be mounted on marble as no insulators are supplied.

It is recommended that 2300 volt holders be spaced on 12″ centers, and 6600 volt holders on 18″ centers, unless barriers are used between them, in which case these centers can be made 5″ and 8″ respectively.

TYPE T, FORMS D AND D 2 FUSE HOLDERS AND FUSES

Form D Fuse Holders, 2300 Volts, 100 Amperes

No. of Holders	Cat. No.		Description	List Price	
	Back Connected	Front Connected		Back Connected	Front Connected
1	37649	37650	For Panel use . .	$12.00	$11.00
1	37652	37656	On Base	16.50	15.50
2	37653	37657	On Base, with barrier	38.50	36.50
3	37654	37658	On Base, with barriers	60.50	57.50
4	37655	37659	On Base, with barriers	82.50	78.50

Form D 2 Fuse Holders, 6600 Volts, 100 Amperes

1	37660	37661	For Panel use . .	$26.00	$23.00
1	37662	37665	On Base	31.00	28.00
2	37663	37666	On Base, with barrier	73.50	67.50
3	37664	37667	On Base, with barriers	115.00	106.00

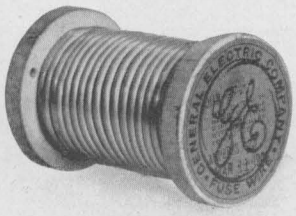
Barriers for Forms D and D 2 Fuse Holders

Cat. No.	Description	List Price
42372	Single Barrier for Form D Fuse Holder	$6.00
42373	Single Barrier for Form D 2 Fuse Holder	9.00

Fuses for Forms D and D 2 Holders

Continuous Amp. Capacity	Form D—2300 Volts		Form D 2—6600 Volts	
	Cat. No.	List Price	Cat. No.	List Price
5	37788	$0.40	37794	$0.40
8	37789	.40	37795	.40
10	37790	.40	37796	.40
15	37791	.40	37797	.40
20	37792	.40	37798	.40
25	37793	.40	37799	.40
30	36819	.40	36827	.40
40	36820	.40	36828	.40
50	36821	.40	36829	.40
60	36822	.40	36830	.40
70	36823	.40	36831	.40
80	36824	.40	36832	.40
90	36825	.40	36833	.40
100	36826	.40	36834	.40

FUSE WIRE



The Fuse Wire manufactured by the General Electric Company possesses valuable features not embodied in other fuse wires.

One of the essentials of good fuse wire is that the blowing point remain constant no matter to what exposure the fuse wire is put. If the fuse wire is composed of practically pure lead, as is often the case, it will, after having been installed for some time, become oxidized, forming a tube of hard oxide. If an overload occurs, this tube holds the molten fuse metal until an excessive current is passing through it. This may result in serious injury either to the apparatus which is supposed to be protected or to the building in which the fuses are installed.

The General Electric Company's fuse wire is made of an alloy which, while more expensive, does not oxidize. Attention is called to the fact that these fuse wires when used in one-inch lengths fuse at 25% above the rated capacity, thus meeting the requirements of the National Board of Fire Underwriters.

Another valuable feature of this wire is the ease with which it can be soldered to copper tips. The proper soldering of pure lead wire to copper tips is exceedingly difficult. Customers will appreciate the value of a fuse with a copper tip and also the value of a wire which lends itself to their use in this way.

Standard Fuse Wire for Rosettes, Cut-Outs, Etc.

These ratings are for fuse lengths of one inch between terminals.

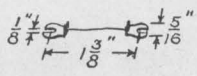
Capacity in Amperes	Approximate Feet per Lb.	List Price per Lb.	Capacity in Amperes	Approximate Feet per Lb.	List Price per Lb.
3	1032	**$1.40**	45	38	**$0.70**
6	500	**.90**	50	33	**.70**
10	256	**.80**	55	29	**.70**
12	196	**.80**	60	26	**.70**
15	155	**.75**	70	22	**.70**
20	104	**.75**	75	19½	**.70**
25	81	**.75**	80	18	**.70**
30	64	**.70**	90	15	**.70**
35	52	**.70**	100	13	**.70**
40	43	**.70**			

Standard Package quantity, 10 lbs. or over, assorted sizes.

NOTE.—Particular attention is called to the fact that General Electric Fuse Wire contains from two to three times as much wire per pound as fuse wires of other manufacture.

STANDARD LINK FUSES

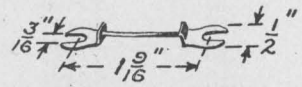
Fuses for Fixture and Ceiling Cut-Outs, Etc.



Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
66345	3	$0.02	66349	10	$0.02
66347	6	.02			

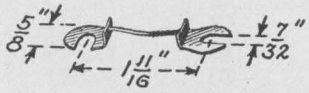
Standard Package Quantity, 100.

Fuses for Link Fuse Cut-Outs and Station Switches



66373	10	$0.03	66385	35	$0.03
66377	15	.03	66387	40	.03
66379	20	.03	66389	45	.03
66381	25	.03	66391	50	.03
66383	30	.03			

Standard Package Quantity, 100.

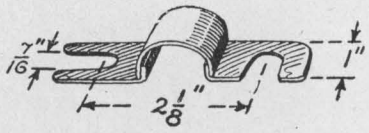


66407	30	$0.03	66421	70	$0.03
66409	35	.03	66423	75	.03
66411	40	.03	66425	80	.03
66412	45	.03	66427	85	.03
66413	50	.03	66429	90	.03
66415	55	.03	66431	95	.03
66417	60	.03	66433	100	.03
66419	65	.03			

Standard Package Quantity, 100.

STANDARD LINK FUSES

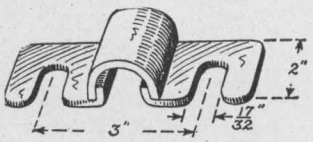
Fuses for Station Switches, Fuse Blocks, Junction Boxes, Etc.



Type 88

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
51277	25	$0.15	66467	260	$0.20
51278	30	.15	66469	270	.20
51279	40	.15	66471	280	.20
51280	50	.15	66473	290	.20
51281	60	.15	66475	300	.20
51282	70	.15	66477	310	.20
51283	75	.15	66479	320	.20
51284	80	.15	66481	330	.20
51285	90	.15	66483	340	.20
66435	100	.15	66485	350	.20
66437	110	.15	66487	360	.30
66439	120	.15	66493	370	.30
66441	130	.15	66495	380	.30
66443	140	.15	66497	390	.30
66445	150	.15	66499	400	.30
66447	160	.15	66501	410	.30
66449	170	.15	66503	420	.30
66451	180	.15	66505	430	.30
66453	190	.15	66515	440	.30
66455	200	.15	66517	450	.30
66457	210	.20	66519	460	.30
66459	220	.20	66521	470	.30
66461	230	.20	66523	480	.30
66463	240	.20	66525	490	.30
66465	250	.20	66527	500	.30

Standard Package Quantity, 50.



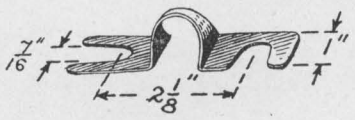
Type 93

66426	300	$0.60	66434	700	$0.75
66428	400	.60	66436	800	.75
66430	500	.70	66438	900	.80
66432	600	.75	66440	1000	.80

Standard Package Quantity, 25.

STANDARD LINK FUSES

Fuses for Station Switches, Fuse Blocks, Junction Boxes, Etc.

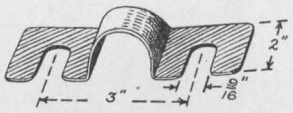


Type 88

These fuses are punched in one piece from sheet copper and are designed for the protection of underground systems in the case of a dead short circuit only. They are marked with the normal current which they will carry without undue heating. The rupture of the arc with these fuses is most satisfactory, and owing to their higher conductivity the heating at the normal carrying capacity is less than with alloy fuses. They are not recommended as a protection against overloads.

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
68886	250	$0.10	68892	550	$0.10
68887	300	.10	68893	600	.10
68888	350	.10	68894	650	.10
68889	400	.10	68895	700	.10
68890	450	.10	68896	750	.10
68891	500	.10			

Standard Package Quantity, 50.



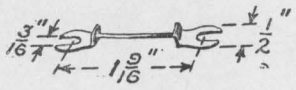
Type 93

Cat. No.	Rated Ampere Capacity	List Price Per 100	Cat. No.	Rated Ampere Capacity	List Price Per 100
68897	500	$17.50	68903	1100	$17.50
68898	600	17.50	68904	1200	17.50
68899	700	17.50	68905	1300	17.50
68900	800	17.50	68906	1400	17.50
68901	900	17.50	68907	1500	17.50
68902	1000	17.50			

Standard Package Quantity, 25.

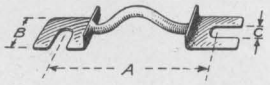
STANDARD LINK FUSES

Fuses for Use on 125 Volt Form D Fuse Blocks and Lever Switches



Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
66373	10	$0.03	66385	35	$0.03
66377	15	.03	66387	40	.03
66379	20	.03	66389	45	.03
66381	25	.03	66391	50	.03
66383	30	.03			

Standard Package Quantity, 100.



A=1½", B=¾", C=$\frac{9}{32}$".

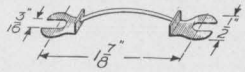
23068	10	$0.10	23119	60	$0.10
23069	15	.10	23120	70	.10
23070	20	.10	23121	75	.10
23071	25	.10	23122	80	.10
23072	30	.10	23123	90	.10
23073	40	.10	23124	100	.10
23118	50	.10			



A=1⅞", B=⅞", C=$\frac{11}{32}$".

23129	100	$0.15	23132	175	$0.15
23130	125	.15	23133	200	.15
23131	150	.15			

Fuses for Use on 250 Volt Form D Fuse Blocks and Lever Switches



23134	5	$0.03	23139	30	$0.03
23135	10	.03	23140	35	.03
23136	15	.03	23141	40	.03
23137	20	.03	23142	45	.03
23138	25	.03	23143	50	.03

STANDARD LINK FUSES

Fuses for Use on 250 Volt Form D Fuse Blocks and Lever Switches

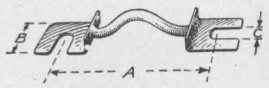


Fig. 1

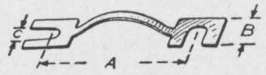


Fig. 2

See Fig. 1. A=2″, B=$\frac{3}{4}$″, C=$\frac{9}{32}$″.

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
23144	10	$0.10	23151	60	$0.10
23145	15	.10	23152	70	.10
23146	20	.10	23153	75	.10
23147	25	.10	23154	80	.10
23148	30	.10	23155	90	.10
23149	40	.10	23156	100	.10
23150	50	.10			

See Fig. 2. A=2$\frac{3}{8}$″, B=$\frac{7}{8}$″, C=$\frac{13}{32}$″.

51226	100	$0.15	51229	175	$0.15
51227	125	.15	51230	200	.15
51228	150	.15			

See Fig. 2. A=2$\frac{1}{2}$″, B=1″, C=$\frac{13}{32}$″.

51231	225	$0.15	51233	275	$0.15
51232	250	.15	51234	300	.15

See Fig. 2. A=3$\frac{3}{8}$″, B=1$\frac{3}{8}$″, C=$\frac{13}{32}$″.

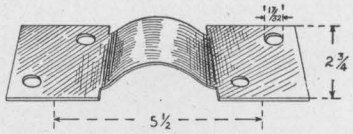
36509	300	$0.20	36514	425	$0.20
36510	325	.20	36515	450	.20
36511	350	.20	36516	475	.20
36512	375	.20	36517	500	.20
36513	400	.20			

See Fig. 2. A=4″, B=2″, C=$\frac{17}{32}$″.

51262	500	$0.30	51266	700	$0.30
51263	550	.30	51267	750	.30
51264	600	.30	51268	800	.30
51265	650	.30			

STANDARD LINK FUSES

Fuses for Use on 125 or 250 Volt Form D Fuse Blocks

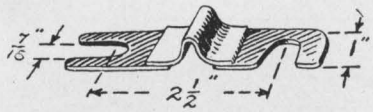


Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
23906	800	$0.60	23909	1100	$0.60
23907	900	.60	23910	1200	.60
23908	1000	.60			

Fuses for Use in Standard 150 and 250 Ampere Main Railway Motor Fuse Boxes, Cat. Nos. 17428 and 10986



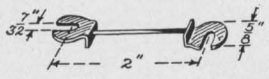
Cut-Out, Cat. No. 17428—Fig. 1



Cut-Out, Cat. No. 10986—Fig. 2

7908	35	$0.08	51370	100	$0.12
7909	50	.08	51371	150	.12
7910	75	.08	51372	200	.12
15652	100	.08	51373	250	.12
17429	150	.10			

Fuses for Use in 35 Ampere Form K Magnetic Fuse Box, Cat. No. 11756



8543	5	$0.03	8547	25	$0.03
8544	10	.03	8548	30	.03
8545	15	.03	8549	35	.03
8546	20	.03			

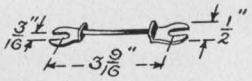
STANDARD LINK FUSES

Fuses for Use in Cat. No. 8228 Primary Switch and Fuse Box



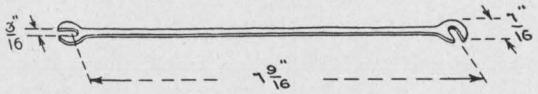
Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
23126	1	$0.12	14345	10	$0.12
23127	2	.12	14346	15	.12
14343	3	.12	14347	20	.12
23128	4	.12	14348	25	.12
14344	5	.12	14349	30	.12

Fuses for Use in Cat. No. 8290 Primary Switch and Fuse Box



7962	3	$0.03	7966	20	$0.03
7963	5	.03	7967	25	.03
7964	10	.03	7968	30	.03
7965	15	.03			

Fuses for Use in Cat. No. 51874 Insulator Type of Primary Fuse Box



23174	1	$0.03	23180	15	$0.03
23175	2	.03	23181	20	.03
23176	3	.03	23182	25	.03
23178	5	.03	23183	30	.03
23179	10	.03			

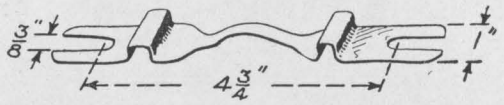
Standard Package Quantity, 100.

Fuses for Use in Cat. No. 24381 Type BT Primary Cut-Out

25747	1	$0.03	25751	8	$0.03
25748	2	.03	23179	10	.03
25749	3	.03	23180	15	.03
25750	5	.03			

STANDARD LINK FUSES

Fuses for Use in Cat. Nos. 26250 and 5696, 100 Ampere, 2500 Volt Expulsion Fuse Blocks



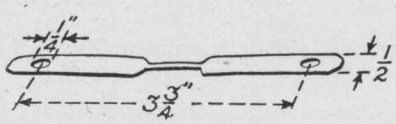
Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
9421	10	$0.05	23158	70	$0.05
9422	15	.05	9428	75	.05
9423	20	.05	23159	80	.05
9424	25	.05	23160	90	.05
9425	30	.05	9429	100	.05
9426	40	.05	9430	125	.05
9427	50	.05	9431	150	.05
23157	60	.05			

Fuses for Use in Cat. No. 50742 Double Expulsion Fuse Block for 200 Amperes, 2500 Volts

See above.

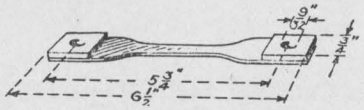
Two fuses should be ordered, each having one-half the desired capacity. For example, two Cat. No. 9421, equal 20 amperes.

Fuses For Use in Cat. No. 5697, 50 Ampere, 5000 Volt Spring Expulsion Fuse Block



Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
8061	10	$0.40	8065	30	$0.40
8062	15	.40	8066	40	.40
8063	20	.40	8067	50	.40
8064	25	.40			

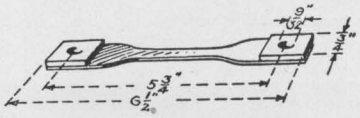
Fuses for Use in Cat. No. 51848, 100 Ampere, 5000 Volt Spring Expulsion Fuse Block



23162	25	$0.20	23168	60	$0.20
23163	30	.20	23169	70	.20
23164	35	.20	23170	80	.20
23165	40	.20	23171	90	.20
23166	45	.20	23172	100	.20
23167	50	.20			

STANDARD LINK FUSES

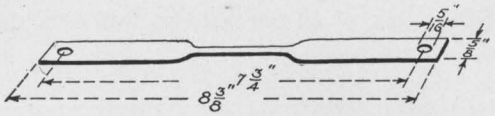
Fuses for Use in Cat. No. 50710, 150 Ampere, 5000 Volt Double Spring Expulsion Fuse Block



Catalogue number includes two fuses, each one-half rated capacity.

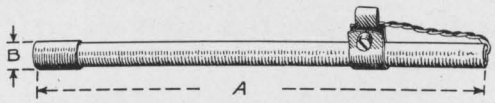
Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
23057	50	$0.75	23062	90	$0.75
23058	60	.75	23063	100	.75
23059	70	.75	23064	125	.75
23060	75	.75	23065	150	.75
23061	80	.75			

Fuses for Use in Cat. No. 50711, 100 Ampere, 20090 Volt Spring Expulsion Fuse Block



23173	10	$0.40	23005	50	$0.50
23000	15	.40	23006	60	.50
23001	20	.40	23007	70	.50
23002	25	.40	23008	80	.50
23003	30	.40	23009	90	.50
23004	40	.40	23010	100	.50

TUBE FUSES FOR SERIES TRANSFORMERS FOR SERIES ARC LIGHTING SYSTEMS



These fuses are rated so as to operate at a low temperature when running at normal capacity and are therefore not intended to take care of an overload but operate immediately on short circuit.

Fuses for Use in 2500 Volt Tube Expulsion Fuse Blocks, Cat. Nos. 11505, 11507, 10999

A = 10″, B = ⅝″.

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
51286	2½	$1.50	51293	15	$1.50
51287	4	1.50	51294	20	1.50
51288	5	1.50	51295	25	1.50
51289	6	1.50	51296	30	1.50
51290	8	1.50	51297	40	1.50
51291	10	1.50	51298	50	1.50
51292	12	1.50	23125	75	1.50

TUBE FUSES FOR SERIES TRANSFORMERS FOR SERIES ARC LIGHTING SYSTEMS—Concluded

Fuses for Use in 5000 Volt Tube Expulsion Fuse Block, Cat. No. 11506

A = 12″, B = $\frac{5}{8}$″.

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
51387	2½	$2.00	51394	15	$2.00
51388	4	2.00	51395	20	2.00
51389	5	2.00	51396	25	2.00
51390	6	2.00	51397	30	2.00
51391	8	2.00	51398	40	2.00
51392	10	2.00	51399	50	2.00
51393	12	2.00			

Tube Fuses for Use with Reactive Coils for Series Incandescent Lighting Systems

Fuses for Use in 2500 Volt Tube Expulsion Fuse Blocks, Cat. Nos. 11505, 11507, 10999

These fuses are rated to take care of an overload as well as a short circuit

A = 10″, B = $\frac{5}{8}$″.

23161	2	$1.50	51299	5½	$1.50
51276	3½	1.50			

Fuses for Use in 5000 Volt Tube Expulsion Fuse Block, Cat. No. 11506

23923	2	$1.50	23925	5½	$1.50
23924	3½	1.50			

Tube Fuses for Use with Cat. Nos. 24388 and 51858 Fuse Blocks

A = 7″, B = $\frac{5}{8}$″.

24389	1	$1.50	24391	5	$1.50
24390	2	1.50	24392	8	1.50
51859	3	1.50	24393	10	1.50

TYPE T, FORM D-2 EXPULSION FUSE HOLDERS, WITH FUSES FOR USE WITH POTENTIAL TRANSFORMERS



CAT. No. 45268



CAT. No. 45269

Cat. No.	Description	List Price
45268	Fuse holder, with fuse Cat. No. 45495, for the 11000, 13200 and 15000 Volt Air Type, and Oil Type transformers in CK54 box, . .	Prices on application
45269	Fuse holder, with fuse Cat. No. 45494, for the 22000 and 33000 Volt Air Type, and Oil Type transformers in CK56 and CK58 boxes .	
46302	Fuse holder, with fuse Cat. No. 46303, for the 4400, 5500 and 6600 Volt Air Type transformers	
45493	Fuse (12¾″ long) with asbestos insulation, for use in fuse holder Cat. No. 45268, ...	
45494	Fuse (15½″ long) with asbestos insulation, for use in fuse holder Cat. No. 45269, ...	
46303	Fuse (9″ long) with asbestos insulation, for use in fuse holder Cat. No. 46302, ...	
46304	Clip for use with the above fuse holders.	

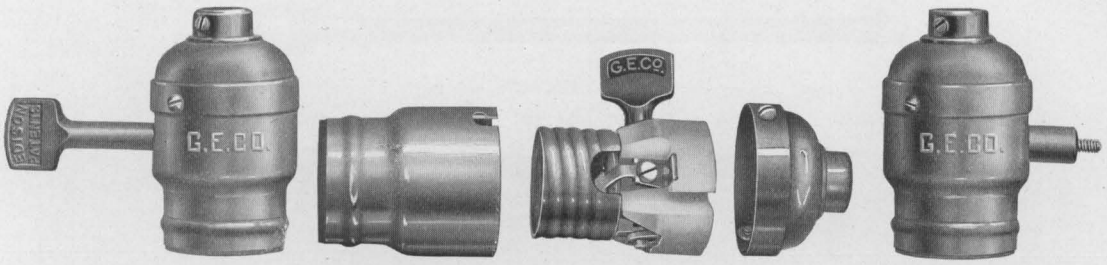
Fuses for use in Cat. No. 44304, 15 Amp., 6600 Volt Primary Fuse Box

Cat. No.	Rated Ampere Capacity	List Price	Cat. No.	Rated Ampere Capacity	List Price
45000	1	$0.40	45004	8	$0.40
45001	2	.40	45005	10	.40
45002	3	.40	45006	12	.40
45003	5	.40	45007	15	.40

Fuses for use in Cat. No. 45483, 10 Amp., 15000 Volt Primary Fuse Box

45484	1	$0.40	45487	5	$0.40
45485	2	.40	45488	8	.40
45486	3	.40	45489	10	.40

SOCKETS FOR LAMPS WITH EDISON SCREW BASES



Socket with Extra Long Key — Exploded View of Cat. No. 9386 — Socket with Extension Key

The Key Sockets listed in this catalogue can be supplied with extra long keys. Sockets so fitted will be supplied only on special order, which must specify distance desired between outside of shell and end of handle.

SOCKETS WITH EXTENSION KEYS

We are prepared to furnish our sockets with stud for removable extension keys, as shown in the accompanying illustration, designed to receive a special key furnished by the fixture manufacturer to match the fixture.

The metal part of the extension stud is thoroughly insulated from the other parts of the socket by hard rubber.

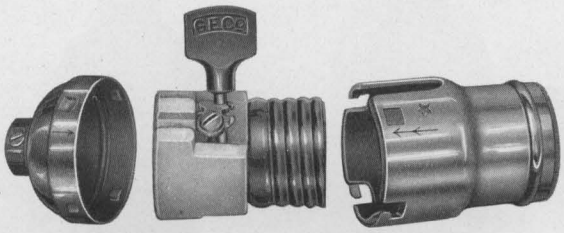
SPECIAL FINISHES

Sockets and Receptacles listed in this catalogue are furnished with polished brass (Finish No. 1) shells, but can be supplied in any special finish desired.

1 Polished Brass.
2 Old Brush or Ground Brass.
3 Old English Bronze.
4 Antique Brass.
5 Oxidized Brass.
6 Polished Gilt.
7 English Bronze.
8 Satin Gold.
9 Etruscan Gilt.
10 Gold Bronze.
11 Mottled Copper.
12 Oxidized Copper.
13 Antique or Acid Copper.
14 Polished Bronze.
15 Polished Copper.
16 Polished Steel.
17 Polished Nickel.
18 Oxidized Silver.
19 Ground or Butler's Silver.
20 Wrought Iron.
21 Black Oxidized Copper.

SOCKETS FOR LAMPS WITH EDISON SCREW BASES

Security Snap Sockets



This line of sockets has been designed so as to retain all the desirable features of the bayonet joint. Instead of clamping the cap and shell together by screws tapped into a yoke piece, the cap and shell are securely locked by a depression in the cap engaging with a slot in the shell. A slight pressure on the shell next to the long slot, accompanied by a twist of the shell is sufficient to release the catch and allow the shell to be removed. The socket mechanism is the same as has been standard with the General Electric Company for years.



Cat. No. 44147



Cat. No. 44149



Cat. No. 44151



Cat. No. 44152

Cat. No.	Description	Pkge. Quan.	List Price
44147	Key socket for $\frac{1}{8}$ in. pipe	500	$0.33
44148	Key socket for $\frac{3}{8}$ in. pipe	250	.39
44149	Keyless Socket for $\frac{1}{8}$ in. pipe	500	.30
44150	Keyless Socket for $\frac{3}{8}$ in. pipe	250	.36
44814	Key Socket, male thread on bushing for $\frac{3}{8}$ in. pipe	250	.39
44815	Keyless Socket male thread on bushing for $\frac{3}{8}$ in. pipe	250	.36
44151	Key Socket with moulded bushing for pendant use	500	.33
44152	Keyless Socket with moulded bushing for pendant use	500	.30
	With Combined Shell and Shade Holder		
44153	Key Socket for $\frac{1}{8}$ in. pipe for $2\frac{1}{4}$ in. shades	500	$0.39
44154	Key Socket for $\frac{3}{8}$ in. pipe for $2\frac{1}{4}$ in. shades	250	.45
44155	Keyless Socket for $\frac{1}{8}$ in. pipe for $2\frac{1}{4}$ in. shades	500	.36
44156	Keyless Socket for $\frac{3}{8}$ in. pipe for $2\frac{1}{4}$ in. shades	250	.42
44157	Key Socket with moulded bushing for pendant use for $2\frac{1}{4}$ in. shades	500	.39
44158	Keyless Socket with moulded bushing for pendant use for $2\frac{1}{4}$ in. shades	500	.36
44159	Key Socket for $\frac{1}{8}$ in. pipe for $3\frac{1}{4}$ in. shades	100	.47
44160	Key Socket for $\frac{3}{8}$ in. pipe for $3\frac{1}{4}$ in. shades	100	.53
44161	Keyless Socket for $\frac{1}{8}$ in. pipe for $3\frac{1}{4}$ in. shades	100	.44
44162	Keyless Socket for $\frac{3}{8}$ in. pipe for $3\frac{1}{4}$ in. shades	100	.50
44163	Key Socket with moulded bushing for pendant use for $3\frac{1}{4}$ in. shades	100	.47
44164	Keyless Socket with moulded bushing for pendant use for $3\frac{1}{4}$ in. shades	100	.44

SOCKETS FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 9386



Cat. No. 1317



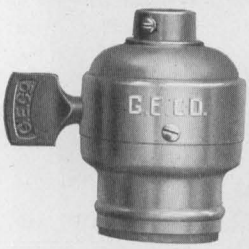
Cat. No. 50740



Cat. No. 35000



Cat. No. 29623



Cat. No. 50709

Cat. No.	Description	Std. Pkg.	List Price
9386	Key, for $\frac{1}{8}$″ pipe	500	$0.33
1317	Key fixture, 3 bayonet joints, for $\frac{1}{8}$″ pipe	500	.33
50760	Key, for $\frac{3}{8}$″ pipe	250	.39
43389	Key socket, male thread on bushing for $\frac{3}{8}$″ pipe	250	.39
1318	Key fixture, 3 bayonet joints, for $\frac{3}{8}$″ pipe	250	.39
50740	Key, with removable ring, for $\frac{1}{8}$″ pipe	500	.35
50762	Key, with removable ring, for $\frac{3}{8}$″ pipe	250	.41
99386	Key, with cap for reinforced cord	500	.33
35000	Pull, for $\frac{1}{8}$″ pipe	250	.60
35001	Pull, for $\frac{3}{8}$″ pipe	100	.66
29623	Key, for electrolier, for $\frac{1}{8}$″ pipe	250	.55
29624	Key, for electrolier, for $\frac{3}{8}$″ pipe	100	.61
50709	Key, three-way, for $\frac{1}{8}$″ pipe	50	.80
50759	Key, three-way, for $\frac{3}{8}$″ pipe	25	.86

The standard length of key is $\frac{3}{4}$″, measured from the shell. Keys 1″ in length can be furnished *on order* without extra charge. For extra long keys see page 262.

Keyless Sockets



Cat. No. 9392



Cat. No. 1319



Cat. No. 66237



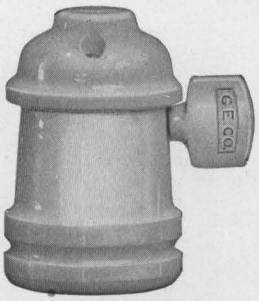
Cat. No. 50750



Cat. No. 50741

Cat. No.	Description	Std. Pkg.	List Price
9392	For $\frac{1}{8}$″ pipe	500	$0.30
1319	Fixture socket, 3 bayonet joints, for $\frac{1}{8}$″ pipe	500	.30
50768	For $\frac{3}{8}$″ pipe	250	.36
43390	Keyless socket, male thread on bushing for $\frac{3}{8}$″ pipe	250	.36
1320	Fixture socket, 3 bayonet joints, for $\frac{3}{8}$″ pipe	250	.36
50741	With removable ring, for $\frac{1}{8}$″ pipe	500	.32
50771	With removable ring, for $\frac{3}{8}$″ pipe	250	.38
99392	Socket, with cap for reinforced cord	500	.30
50750	With acorn shell, for $\frac{1}{8}$″ pipe	250	.38
50770	With acorn shell, for $\frac{3}{8}$″ pipe	100	.44
66237	For electrolier, for $\frac{1}{8}$″ pipe	250	.40
50766	For electrolier, for $\frac{3}{8}$″ pipe	100	.46

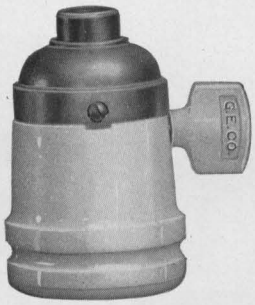
SOCKETS FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 9395



Cat. No. 9393



Cat. No. 50799



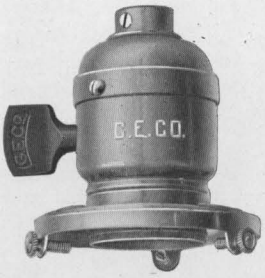
Cat. No. 50896

Porcelain Sockets

Cat. No.	Description	Std. Pkg.	List Price
9395*	Key pendant socket	250	$0.30
9393*	Keyless pendant socket	250	.25
50799*	Key socket with metal top, for $\frac{1}{8}$″ pipe	100	.35
34947*	Key socket with metal top, for $\frac{3}{8}$″ pipe	100	.35
50896*	Keyless socket with metal top, for $\frac{1}{8}$″ pipe	100	.30
34948*	Keyless socket with metal top, for $\frac{3}{8}$″ pipe	100	.30

*Will take shade-holder Cat. No. 71737

Combined Socket and Shade-Holder



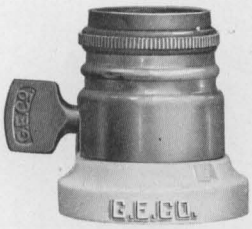
Cat. No. 27740



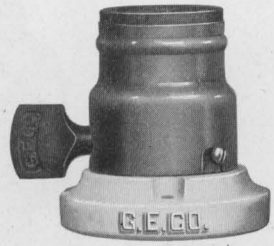
Cat. No. 27741

Cat. No.	Description	Std. Pkg.	List Price
27740	Key, for $\frac{1}{8}$″ pipe, for $2\frac{1}{4}$″ shade	500	$0.39
28719	Key, for $\frac{3}{8}$″ pipe, for $2\frac{1}{4}$″ shade	250	.45
27741	Keyless, for $\frac{1}{8}$″ pipe, for $2\frac{1}{4}$″ shade	500	.36
28720	Keyless, for $\frac{3}{8}$″ pipe, for $2\frac{1}{4}$″ shade	250	.42
1431	Key fixture, 3 bayonet joints, for $\frac{1}{8}$″ pipe, $2\frac{1}{4}$″ shade	500	.39
1432	Key fixture, 3 bayonet joints, for $\frac{3}{8}$″ pipe, $2\frac{1}{4}$″ shade	250	.45
1433	Keyless fixture, 3 bayonet joints, for $\frac{1}{8}$″ pipe, $2\frac{1}{4}$″ shade	500	.36
1434	Keyless fixture, 3 bayonet joints, for $\frac{3}{8}$″ pipe, $2\frac{1}{4}$″ shade	250	.42
29400	Key, for $\frac{1}{8}$″ pipe, for $3\frac{1}{4}$″ shade	100	.47
29401	Key, for $\frac{3}{8}$″ pipe, for $3\frac{1}{4}$″ shade	100	.53
29402	Keyless, for $\frac{1}{8}$″ pipe, for $3\frac{1}{4}$″ shade	100	.44
29403	Keyless, for $\frac{3}{8}$″ pipe, for $3\frac{1}{4}$″ shade	100	.50
1631	Key fixture, 3 bayonet joints, for $\frac{1}{8}$″ pipe, $3\frac{1}{4}$″ shade	100	.47
1632	Key fixture, 3 bayonet joints, for $\frac{3}{8}$″ pipe, $3\frac{1}{4}$″ shade	100	.53
1633	Keyless fixture, 3 bayonet joints, for $\frac{1}{8}$″ pipe, $3\frac{1}{4}$″ shade	100	.44
1634	Keyless fixture, 3 bayonet joints, for $\frac{3}{8}$″ pipe, $3\frac{1}{4}$″ shade	100	.50

RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 50747



Cat. No. 9184



Cat. No. 50748



Cat. No. 35006



Cat. No. 50753

Cat. No.	Description	Std. Pkg.	List Price
9184	Key, with porcelain base	250	$0.44
50747	Key, with removable ring and porcelain base	250	.44
50748	Key, with removable ring and concealed base	250	.44
50753	Key, angle base	100	.55
35006	Pull, porcelain base	100	.70
35028	Pull, with concealed base	100	.75
35021	Pull, angle base	25	.70



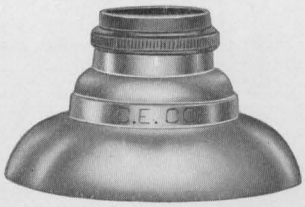
Cat. No. 9185



Cat. Nos. 50745, 35780 and 50786



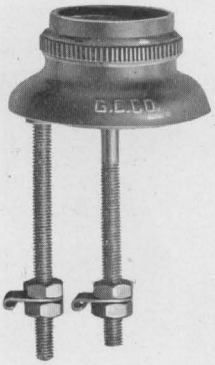
Cat. Nos. 50746, 50797 and 50798



Cat. No. 50785

Cat. No.	Description	Std. Pkg.	List Price
9185	Keyless, with porcelain base	250	$0.40
50745	Keyless, with removable ring and porcelain base, 2″ diameter	250	.30
50746	Keyless, with removable ring and concealed base	250	.40
50785	Keyless, large, with removable ring and concealed base	100	.45
35780	Keyless, with removable ring and chocolate colored porcelain base, 2″ diameter	250	.30
50786	Keyless, with removable ring and chocolate colored porcelain base, 2⅛″ diameter	250	.30

RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 24998



Cat. No. 50723



Cat. No. 50755

Cat. No.	Description	Std. Pkg.	List Price
50755	Keyless, angle base	100	$0.50
50723	Keyless, for concealed work, with removable ring and porcelain base	100	.30
29176	Keyless, for concealed work, with removable ring and chocolate colored base	100	.30
50797	Keyless, for switchboards, with removable ring and nickel-plated shell	100	.35
50798	Keyless, for switchboards, with removable ring and black oxidized shell	100	.30
24998	Keyless, for switchboards, with studs for back connection	100	.30



Cat. No. 50783



Cat. No. 50784



Cat. No. 27742

Cat. No.	Description	Std. Pkg.	List Price
*27742	Key, with porcelain base, for 2¼″ shade	250	$0.50
*29404	Key, with porcelain base, for 3¼″ shade	100	.58
28721	Keyless, angle base,	100	.61
29406	Key, angle base, for 3¼″ shade	100	.69
50783	Key, with double-pole fuse	250	.60

*Fitted with combined shell and shade-holder.

RECEPTACLES FOR LAMP WITH EDISON SCREW BASES

Fitted With Combined Shell and Shade Holder



Cat. No. 27743



Cat. No. 28721

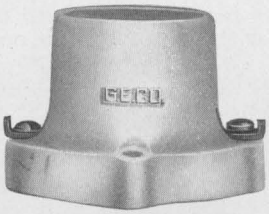


Cat. No. 28722

Cat. No.	Description	Std. Pkg.	List Price
27743	Keyless, with porcelain base, for $2\frac{1}{4}''$ shade	250	$0.46
28722	Keyless, angle base, for $2\frac{1}{4}''$ shade	100	.56
29405	Keyless, with porcelain base, for $3\frac{1}{4}''$ shade	100	.54
29407	Keyless, angle base, for $3\frac{1}{4}''$ shade	100	.64
50784	Keyless, with double-pole fuse	250	.55



Cat. Nos. 9171 and 50757



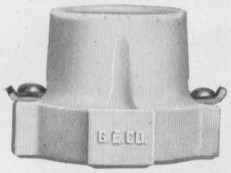
Cat. Nos. 9402 and 50715



Cat. No. 9403

Cat. No.	Description	Std. Pkg.	List Price
9171	Keyless, porcelain, with outside connections and center screw hole in base, copper screw shell	500	$0.10
50757	Keyless, similar to No. 9171, but having copper fittings	250	.20
9402	Keyless, porcelain, with outside connections (base diameter $2\frac{5}{16}''$)	500	.15
50715	Keyless, porcelain, with outside connections (base diameter $2''$)	500	.15
9403	Keyless, porcelain, with outside connections and adapted for shade holder	250	.25

RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 11221



Cat. No. 9394



Cat. No. 34152



Cat. No. 28795

Cat. No.	Description	Std. Pkg.	List Price
11221	Keyless, with spring center contact, similar to No. 9171	500	$0.20
9394	Keyless, porcelain, with outside connections, with removable ring; without shade holder	250	.20
50789	Keyless, porcelain ring and base, for molding work. Will take shade holder	250	.40
34152	Keyless, porcelain, with concealed contacts, for molding work. Adapted for shade holder	250	.30
42453	Same as 34152, but does not take shade holder . . .	250	.25
28795	Keyless, porcelain, solid base, spring center contact, similar to No. 11221	250	.15



Cat. No. 9514



Cat. No. 50899



Cat. No. 50744



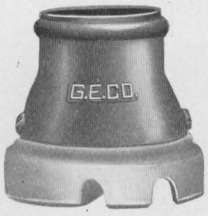
Cat. No. 50782



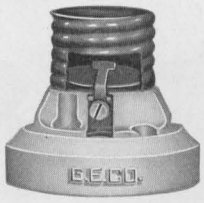
Cat. No. 30599

Cat. No.	Description	Std. Pkg.	List Price
9514	Keyless, porcelain, flush pocket . .	250	$0.30
50744	Keyless, for concealed work, with porcelain shell and removable ring. Will take shade holder	100	.30
50782	Keyless, for sign work, skirt $1\frac{5}{8}$″ long . .	100	.25
50899	Keyless, for sign work, skirt 1″ long . .	100	.25
30599	Keyless, for sign work, skirt $1\frac{3}{4}$″ long . .	500	.20
1700	Keyless, for sign work, skirt 1″ long . .	500	.14

RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



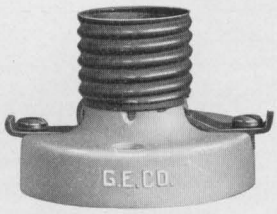
Cat. No. 50717



Cat. No. 40537



Cat. No. 9397



Cat. No. 50716

Cat. No.	Description	Std. Pkg.	List Price
9397	Keyless, interior conduit	250	$0.20
40537	Keyless, interior conduit, base 2″ diameter	250	.18
40507	Keyless, interior conduit, base 1⅞″ diameter	250	.17
50716	Keyless, porcelain, for temporary work	500	.18
50717	Keyless, porcelain, for concealed or molding work	250	.25

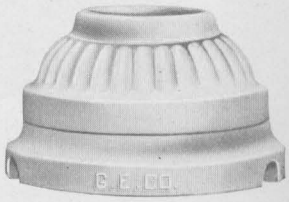
RECEPTACLES WITH PORCELAIN BASES



Cat. No. 9401



Cat. No. 9447



Cat. No. 50752

Cat. No.	Description	Std. Pkg.	List Price
9401	Keyless, porcelain, with single-pole fuse	100	$0.40
9447	Keyless, porcelain, with double-pole fuse. Will take shade holder	100	.45
50752	Keyless, porcelain, for cleat or concealed work, double-pole fuse, 3 amperes	100	.45

RECEPTACLES WITH PORCELAIN BASES



Cat. No. 9404



Cat. No. 9405



Cat. No. 9406

Porcelain Receptacles With K-W Bases

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg	List Price
9404	For concealed work	50	**$0.40**	9435	For 2-wire molding work	50	**$0.40**
9434	For cleat work	50	**.40**	45364	For 3-wire molding work	50	**.40**
				29173	Combination base	50	**.40**

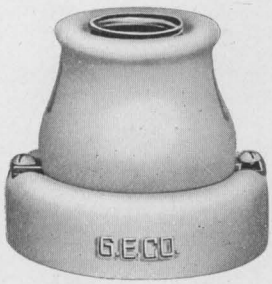
Shade Holder Receptacles With K-W Bases

9405	For concealed work	50	**$0.50**	9437	For 2-wire molding work	50	**$0.50**
9436	For cleat work	50	**.50**	45365	For 3-wire molding work	50	**.50**
				29174	Combination base	50	**.50**

Angle Receptacles With K-W Bases

9406	For concealed work	50	**$0.80**	9439	For 2-wire molding work	50	**$0.80**
9438	For cleat work	50	**.80**	45366	For 3-wire molding work	50	**.80**
				29175	Combination base	50	**.80**

PORCELAIN RECEPTACLES WITH K-W BASES



Cat. No. 38135

Special Combination Style

Cat. No.	Description	Std.Pkg.	List Price
38135	Keyless, for concealed work	50	**$0.50**
38136	Keyless, for cleat work	50	**.50**
38137	Keyless, for molding work	50	**.50**
38138	Keyless, combination base	50	**.50**



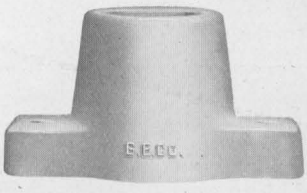
Cat. No. 38394

PORCELAIN RECEPTACLES WITH P-K ROSETTE BASES.

Special Combination Style

Cat. No.	Description	Std. Pkg.	List Price
38394	Keyless, for concealed work	50	$0.50
38395	Keyless, for cleat work	50	.50
38396	Keyless, for molding work	50	.50

KEYLESS PORCELAIN RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 50724



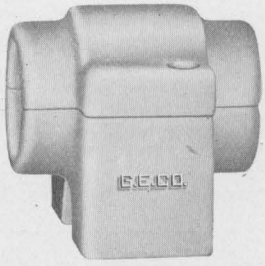
Cat. No. 36519



Cat. No. 23210



Cat. No. 33581



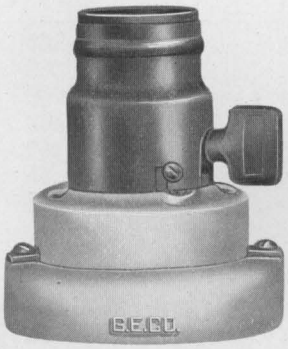
Cat. No. 42454



Cat. No. 33582

Cat. No.	Description	Std. Pkg.	List Price
50724	For molding work	250	$0.25
50726	For molding work, will take shade holder	250	.30
36519	For three-wire molding, will take shade holder	250	.35
23210	For cleat work	250	.25
23209	For cleat work, will take shade holder	250	.30
50727	For multiple circuits	250	.30
33581	For show-window lighting	250	.30
33582	For show-window lighting, with angle base	250	.35
32959	For border lighting	250	.35
34353	For show-window lighting, with angle base, for horizontal molding work	250	.35
42454	For show-window lighting, for two lamps	100	.40

RECEPTACLES WITH K-W ROSETTE PORCELAIN BASES



Cat. No. 50729



Cat. No. 50732



Cat. No. 35010

Cat. No.	Description	Std. Pkg.	List Price
50729	Key, for concealed work	100	$0.60
50730	Key, for cleat work	100	.60
50731	Key, for 2-wire molding work	100	.60
45361	Key, for 3-wire molding work	100	.60
28727	Key, combination base	100	.60
50732	Keyless, for concealed work	50	.55
50733	Keyless, for cleat work	50	.55
50734	Keyless, for 2-wire molding work	50	.55
45362	Keyless, for 3-wire molding work	50	$0.55
28732	Keyless, combination base	50	.55
35009	Pull, for concealed work	50	.55
35010	Pull, for cleat work	20	1.10
35011	Pull, for 2-wire molding work	20	1.10
35031	Pull, for 3-wire molding work	20	1.10
35018	Pull, combination base	20	1.10

Fitted with Combined Shell and Shade Holder



Cat. No. 28723

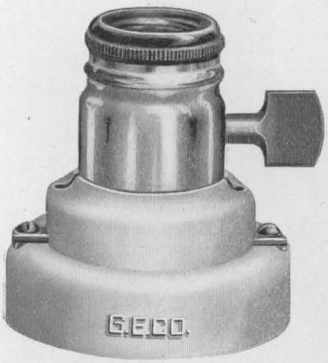
Cat. No. 28728



Cat. No.	Description	Std. Pkg.	List Price
28723	Key, for concealed work, with 2¼″ shade holder	100	$0.66
28724	Key, for cleat work, with 2¼″ shade holder	100	.66
28725	Key, for molding work, with 2¼″ shade holder	100	.66
28726	Key, combination base, with 2¼″ shade holder	100	.66
29408	Key, for concealed work, with 3¼″ shade holder	100	.74
29409	Key, for cleat work, with 3¼″ shade holder	100	.74
29410	Key, for molding work, with 3¼″ shade holder	100	.74
29482	Key, combination base, with 3¼″ shade holder	100	.74
28728	Keyless, for concealed work, with 2¼″ shade holder	50	.61
28729	Keyless, for cleat work, with 2¼″ shade holder	50	.61
28730	Keyless, for molding work, with 2¼″ shade holder	50	.61
28731	Keyless, combination base, with 2¼″ shade holder	50	.61
29411	Keyless, for concealed work, with 3¼″ shade holder	50	.69
29412	Keyless, for cleat work, with 3¼″ shade holder	50	.69
29413	Keyless, for molding work, with 3¼″ shade holder	50	.69
29483	Keyless, combination base, with 3¼″ shade holder	50	.69

RECEPTACLES WITH K-W PORCELAIN BASES

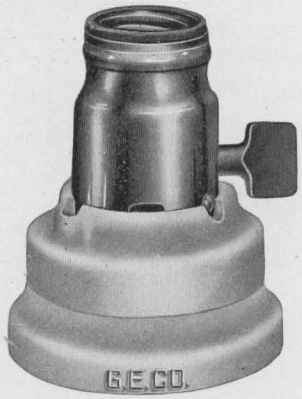
Fitted with Removable Rings



Cat. No. 38398

Cat. No.	Description	Std. Pkg.	List Price
38398	Key K-W, for concealed work	100	$0.60
38399	Key K-W, for cleat work	100	.60
38600	Key K-W, for 2-wire molding work	100	.60
46222	Key K-W, for 3-wire molding work	100	.60
38601	Key K-W, combination base	100	.60
38602	Keyless K-W, for concealed work	50	.55
38603	Keyless K-W, for cleat work	50	.55
38604	Keyless K-W, for 2-wire molding work	50	.55
46223	Keyless K-W, for 3-wire molding work	50	.55
38605	Keyless K-W, combination base	50	.55

RECEPTACLES WITH THOMAS ROSETTE PORCELAIN BASES



Cat. No. 24990

Cat. No.	Description	Std. Pkg.	List Price
24990	Key, for concealed work	100	$0.60
24991	Key, for cleat work	100	.60
24992	Key, for molding work	100	.60
24993	Keyless, for concealed work	50	.55
24994	Keyless, for cleat work	50	.55
24995	Keyless, for molding work	50	.55
46262	Key, for concealed work, with removable ring	100	.60
46263	Key, for cleat work, with removable ring	100	.60
46264	Key, for molding work, with removable ring	100	.60
46265	Keyless, for concealed work, with removable ring	50	.55
46266	Keyless, for cleat work, with removable ring	50	.55
46267	Keyless, for molding work, with removable ring	50	.55
28733	Key, for concealed work, with 2¼″ shade holder	100	.66
28734	Key, for cleat work, with 2¼″ shade holder	100	.66
28735	Key, for molding work, with 2¼″ shade holder	100	.66
28736	Keyless, for concealed work, with 2¼″ shade holder	50	.61
28737	Keyless, for cleat work, with 2¼″ shade holder	50	.61
28738	Keyless, for molding work, with 2¼″ shade holder	50	.61

RECEPTACLES WITH THOMAS ROSETTE PORCELAIN BASES—Concluded

Cat. No.	Description	Std. Pkg.	List Price
29414	Key, for concealed work, with 3¼″ shade holder	100	$0.74
29415	Key, for cleat work, with 3¼″ shade holder	100	.74
29416	Key, for molding work, with 3¼″ shade holder	100	.74
29417	Keyless, for concealed work, with 3¼″ shade holder	50	.69
29418	Keyless, for cleat work, with 3¼″ shade holder	50	.69
29419	Keyless, for molding work, with 3¼″ shade holder	50	.69

RECEPTACLES WITH P-K ROSETTE PORCELAIN BASES



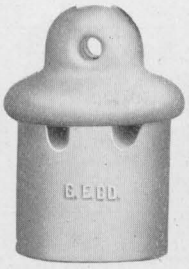
Cat. No. 38606

Cat. No.	Description	Std. Pkg.	List Price
34193	Key, for concealed work	100	$0.60
34194	Key, for cleat work	100	.60
34195	Key, for molding work	100	.60
38672	Key, for concealed work, with 2¼″ shade holder	100	.66
38673	Key, for cleat work, with 2¼″ shade holder	100	.66
38674	Key, for molding work, with 2¼″ shade holder	100	.66
38680	Key, for concealed work, with 3¼″ shade holder	100	.74
38681	Key, for cleat work, with 3¼″ shade holder	100	.74
38682	Key, for molding work, with 3¼″ shade holder	100	.74
34196	Keyless, for concealed work	50	.55
34197	Keyless, for cleat work	50	.55
34198	Keyless, for molding work	50	.55
38676	Keyless, for concealed work, with 2¼″ shade holder	50	.61
38677	Keyless, for cleat work, with 2¼″ shade holder	50	.61
38678	Keyless, for molding work, with 2¼″ shade holder	50	.61
38684	Keyless, for concealed work, with 3¼″ shade holder	50	.69
38685	Keyless, for cleat work, with 3¼″ shade holder	50	.69
38686	Keyless, for molding work, with 3¼″ shade holder	50	.69
38606	Key, for concealed work, with removable ring	100	.60
38607	Key, for cleat work, with removable ring	100	.60
38608	Key, for molding work, with removable ring	100	.60
38610	Keyless, for concealed work, with removable ring	50	.55
38611	Keyless, for cleat work, with removable ring	50	.55
38612	Keyless, for molding work, with removable ring	50	.55

WEATHERPROOF SOCKETS FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 9366



Cat. No. 37695



Cat. No. 60666



Cat. No. 9448

Cat. No.	Description	Std. Pkg.	List Price
9366	Porcelain	250	$0.25
38687	Special porcelain	250	.30
37695	Porcelain, for decorative wiring	250	.25
60666	Molded material	250	.60
50788	Hard rubber	250	1.00
42686	Moulded socket with spring center contact	250	.65
42690	Hard rubber socket with spring center contact	250	1.05



Cat. No. 50997



Cat. No. 22754



Cat. No. 22755

Cat. No.	Description	Std. Pkg.	List Price
50997	Porcelain, with extended top and lead wires	250	$0.50
22754	Porcelain, with D.G. petticoat	200	.35
9448	Bracket socket, for $\frac{1}{8}$″ pipe	100	.60
9496	Bracket socket, for $\frac{3}{8}$″ pipe	100	.60
22755	Bracket socket, for $\frac{1}{8}$″ pipe, with D.G. petticoat	100	.60
22756	Bracket socket, for $\frac{3}{8}$″ pipe, with D.G. petticoat	100	.60

The lead wires on these sockets are 8″ long. Leads of any desired length can be furnished on special order.

WEATHERPROOF SOCKETS FOR LAMPS WITH EDISON SCREW BASES

Moulded Mica Keyless Sockets



Cat. No. 43111



Cat. No. 43313

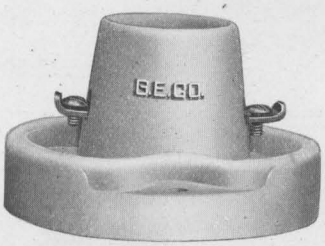


Cat. No. 43310

Cat. No.	Description	Package Quantity	List Price
43310	Pendant socket, for shade-holder	250	**$0.36**
43311	Bracket socket, for shade-holder—for ⅛″ pipe—for wires inside pipe	100	**.60**
43312	Bracket socket, for shade-holder—for ⅛″ pipe—for wires inside pipe	100	**.60**
43313	Bracket socket, for shade-holder—for ⅛″ pipe—for wires outside pipe	100	**.60**
43314	Bracket socket, for shade-holder—for ⅛″ pipe—for wires outside pipe	100	**.60**

The standard length of wire on these sockets is 6 inches. Extra wire 3 cents per foot NET per socket.

WEATHERPROOF RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



Cat. No. 28794



Cat. No. 28794



Cat. No. 40449



Cat. No. 9408



Cat. No. 25707



Cat. No. 25706



Cat. No. 9411

Cat. No.	Description	Std. Pkg.	List Price
9407	Porcelain, with leads parallel to base	100	**$0.40**
9408	Porcelain, with leads perpendicular to base	100	**.40**
44912	Porcelain, with leads parallel to base	100	**.35**
9411	Porcelain, with leads perpendicular to base and lugs for base screws	100	**.35**
30000	Porcelain, angle base, parallel leads	100	**.45**
28794	Porcelain, wall, with side connections	250	**.20**
25706	Porcelain, with iron yoke and outside connections	100	**.27**
25707	Porcelain, with iron yoke and leads perpendicular to base	100	**.44**
40449	Receptacle for outdoor wiring	250	**.25**

SOCKETS FOR LAMPS WITH T-H BASES



Cat. No. 50713



Cat. No. 50714



Cat. No. 9388



Cat. No. 9389

Cat. No.	Description	Std. Pkg.	List Price
50713	Key, $\frac{1}{8}$″ pipe	500	**$0.33**
50761	Key, $\frac{3}{8}$″ pipe	100	**.39**
50714	Keyless, $\frac{1}{8}$″ pipe	250	**.30**
50769	Keyless, $\frac{3}{8}$″ pipe	100	**.36**
35002	Pull, $\frac{1}{8}$″ pipe	100	**.60**
35003	Pull, $\frac{3}{8}$″ pipe	50	**.66**
9388	Porcelain weatherproof	250	**.25**
9389	Molded material	250	**.60**
9399	Soft rubber ring for weatherproof sockets, *not shipped with sockets unless ordered*	100	**3.50**

RECEPTACLES FOR LAMPS WITH T-H BASES



Cat. No. 50735



Cat. No. 50736



Cat. No. 50754



Cat. No. 50756



Cat. No. 9370

Cat. No.	Description	Std. Pkg.	List Price
50735	Key, on porcelain base	250	**$0.44**
50736	Keyless, on porcelain base	100	**.40**
50749	Keyless, on chocolate colored porcelain base similar to No. 50736	100	**.40**
50754	Key, angle base	100	**.55**
50756	Keyless, angle base	100	**.50**
9370	Keyless, porcelain, with outside connections	500	**.18**
35007	Pull	50	**.70**

KEYLESS SOCKETS FOR 500-VOLT CIRCUITS



Cat. No. 50702

These 500 Volt Sockets are substantially made, with no parts likely to work loose and get out of order. The body into which the lamp base is screwed consists of one solid piece of porcelain. The shell is made in two parts; Cat. Nos. 50701, 25709, 50702, and 25710 being screwed together, while Cat. Nos. 32440 to 32443 inclusive are held together by a bayonet catch. These sockets are weatherproof and are particularly adapted for use in mines, tunnels, subways, power stations, electric cars, etc., where a socket of extra strength and high insulation is required. Sockets may be conveniently used on standard iron conduit or iron pipe. The base of the shell provides ample room for the admission of rubber-covered wire.

A line of fixtures for use with these sockets is shown on page 287. Shade holder, Cat. No. 71737, may be used with these sockets.



Cat. No. 32440

Cat. No.	Description	Std. Pkg.	List Price
50701	With aluminum shell, for $\frac{1}{2}$″ pipe	50	$0.70
25709	With aluminum shell, for $\frac{3}{8}$″ pipe	50	.70
50702	With brass shell, for $\frac{1}{2}$″ pipe	50	.70
25710	With brass shell, for $\frac{3}{8}$″ pipe	50	.70
32440	With aluminum shell, for $\frac{1}{2}$″ pipe	50	.50
32441	With aluminum shell, for $\frac{3}{8}$″ pipe	50	.50
32442	With brass shell, for $\frac{1}{2}$″ pipe	50	.50
32443	With brass shell, for $\frac{3}{8}$″ pipe	50	.50

MARINE SOCKETS AND RECEPTACLES FOR LAMPS WITH EDISON SCREW BASES



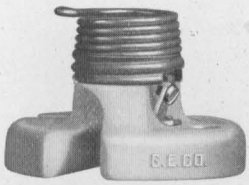
KEY SOCKET
Cat. No. 50966



KEYLESS SOCKET
Cat. No. 50965



N. W. T. KEY RECEPTACLE WITH DOUBLE-POLE FUSE
Cat. No. 9449



N. W. T. PORCELAIN BASE RECEPTACLE
Cat. No. 22287



N. W. T. KEYLESS RECEPTACLE
Cat. No. 22654

Cat. No.	Description	List Price
50966	Key, black shell	$0.50
50965	Keyless, black shell	.45
9449	N.W.T. key, black shell, with double-pole fuse	.60
22654	N.W.T. keyless, black shell, with double-pole fuse	.55
22287	N.W.T. porcelain base	.35
36697	N.W.T. attaching plug	.27
50775	N.W.T. keyless, with removable ring, porcelain base, black shell	.35

SOCKETS AND RECEPTACLES

For Miniature Lamps



No. 1 Receptacle Cat. 9444



No. 2 Receptacle Cat. No. 9446



No. 3 Socket Cat. 50776



No. 4 Receptacle Cat. No. 9445



No. 5 Socket Cat. No. 50777



No. 6 Receptacle Cat. No. 50778



No. 7 Receptacle Cat. No. 50790

No. 1 Receptacle is known as the Standard Round Candelabra Receptacle, and will receive lamps with candelabra base. It is made of porcelain and is especially designed for use on fixtures fitted with glass candles. The receptacle screws into a central supporting tube, and the candles when in place, completely cover both supporting tube and receptacle. The screw at the lower end is supplied either male or female as desired.

No. 2 is the Standard Flat Base Candelabra Receptacle. It is made of porcelain and will receive lamps having candelabra bases.

No. 3 is the Candelabra Socket. It is made of brass, with porcelain insulating parts, and will receive lamps having candelabra bases.

No. 4 is the Standard Round Miniature Lamp Receptacle. It is made of porcelain and will receive the lamps fitted with miniature screw bases.

No. 5 is the Standard Socket for use with Miniature Lamps. It is made of brass with porcelain insulating parts, and will receive lamps fitted with miniature screw bases.

No. 6 is a Special Receptacle for Sign Work, designed for strength and compactness and is very extensively used for sign work of all kinds. It is made of porcelain and will receive lamps having candelabra bases.

No. 7 is a Receptacle designed particularly for marine use. It is similar to the No. 6 Receptacle but has a spring shell, and will take lamps having candelabra bases.

Cat. No.	Description	Std. Pkg.	List Price per 100
9444	No. 1 candelabra receptacle with male thread	200	**$12.00**
69444	No. 1 candelabra receptacle with female thread	200	**12.00**
9446	No. 2 candelabra receptacle	200	**6.00**
50776	No. 3 candelabra socket	200	**23.50**
9445	No. 4 miniature receptacle	200	**6.00**
50777	No. 5 miniature socket	200	**23.25**
50778	No. 6 candelabra receptacle	200	**10.00**
50790	No. 7 candelabra marine receptacle	200	**15.00**
50779	No. 7 candelabra double-pole fused receptacle	200	**22.00**
30857	No. 8 miniature pendant receptacle	200	**12.00**
30856	No. 9 candelabra pendant receptacle	200	**13.50**
35699	Adapter of candelabra base lamps to Edison base sockets	100	**10.00**



No. 7 Receptacle Cat. No. 50779



No. 9 Receptacle Cat. No. 30856



No. 8 Receptacle Cat. No. 30857



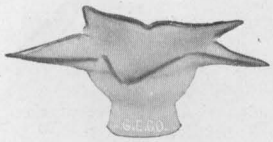
Cat. No. 35699

No. 7 is a Double-pole Fused Receptacle designed to meet requirements demanding the use of fuses in connection with the receptacle. This receptacle is made of porcelain, and has a removable cover concealing both connections and fuses. It will receive lamps having candelabra bases.

No. 8 is a Pendant Receptacle. It is made of porcelain and is furnished with 8″ of cord. It will receive lamps having miniature screw bases.

No. 9 is a Pendant Receptacle. It is made of porcelain and is furnished with 8″ of cord. It will receive lamps having candelabra bases.

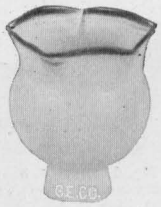
SHADE HOLDER AND SHADES FOR MINIATURE LAMPS



Star Shade



Shade Holder



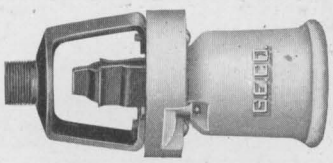
Tulip Shade

The type of Shade Holder Attachment here illustrated is furnished for use with Sockets Nos. 3 and 5. It is made of brass and may be readily attached. As these attachments are not interchangeable for Sockets Nos. 3 and 5, customers should be careful in ordering to state with which socket the attachment is intended to be used.

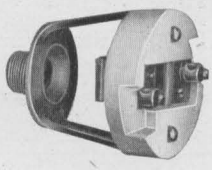
The Star Shade, illustrated above, is made especially for certain classes of decorative work, and presents a very handsome and striking effect when the lamps are lighted.

Special shades for larger miniature lamps can be supplied on order. They are furnished in the following colors: Red, white, blue, and green, with edgings of different colors.

SOCKETS FOR SERIES INCANDESCENT SYSTEM



Cat. No. 25708



Cat. No. 25711



Cat. No. 25712

Cat. No	Description	Std. Pkg.	List Price
25708	Porcelain series socket and receptacle, complete, including iron yoke, No. 25714, for use with large Edison screw base lamps, used with brackets, Cat. Nos. 11289, 11459		$2.00
25717	Porcelain series socket and receptacle, complete, including iron yoke, No. 19043, for use with large Edison screw base lamps, old style bracket, Cat. No. 9089		2.00
29170	Porcelain socket and receptacle, complete, with iron yoke, Cat. No. 29172, for standard Edison screw base lamps, used with brackets, Cat. Nos. 29185, 29186		1.50
25711	Porcelain series socket only, for Nos. 25708, 25717 . .		1.00
25720	Porcelain series socket only, for No. 29170		.50
25712	Porcelain receptacle, with clips and iron yoke, No. 25714 .		1.00
25718	Porcelain receptacle, with clips and iron yoke, No. 19043 .		1.00
29171	Porcelain receptacle, with clips and iron yoke, Cat. No. 29172		1.00
25713	Porcelain receptacle, with clips only		.65
25714	Iron yoke, with two screws, No. 10252 ($\frac{7}{8}$″–18 thread) .		.35
29172	Iron yoke, with two screws, Cat. No. 10252 ($\frac{7}{8}$″–18 thread)		.35
19043	Iron yoke, with two screws, No. 10252 ($\frac{3}{8}$″–18 pipe thread)		.35

BRASS SHELL SERIES LAMP SOCKETS FOR LAMPS WITH T-H BASES



Cat. No. 4504

Cat. No.	Description	List Price
4504	Series socket for arc circuits up to 9.6 amps. . . .	$2.00
4505	Series socket for circuits of 7.5 amps. or less . .	1.50



Cat. No. 4505

ATTACHING PLUGS



Cat. No. 23798



Cat. No. 50751



Cat. No. 23797



Cat. No. 42456



Cat. Nos. 3089 and 50996



Cat. No. 28840



Cat. No. 34153



Cat. No. 35351

Cat. No.	Description	Std. Pkg.	List Price
3089	Porcelain Edison base, with single-pole fuse	250	$0.22
50996	Porcelain, Edison base, fuseless	250	.22
42456	Porcelain, separable Edison base, fuseless	250	.25
34153	With metal cover, Edison base, double bushing for reinforced cord or lamp cord, fuseless	250	.22
28840	Swivel, Edison base, fuseless	250	.30
23797	Porcelain, T-H base, fuseless	250	.22
50751	Porcelain combined socket and attaching plug, Edison base	100	.50
35351	Combined socket and attaching plug, with metal shell, Edison base	100	.60
23798	Porcelain combined socket and attaching plug, T-H base	100	.50

PORCELAIN ELECTROLIER CUT-OUTS



Cat. No. 9478



Cat. No. 61119



Cat. No. 8300



Cat. No. 8305

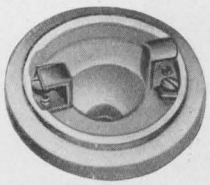
These Cut-outs are adapted by their size and shape for use in interior conduits and in the canopies of electroliers, chandeliers and wall brackets.

Cat. No.	Description	Std. Pkg.	List Price
8300	Single-pole straight bug cut-out, 5 amp., 125 volt . .	100	$0.10
42412	Single-pole straight bug cut-out, for glass tube fuse, 2 amp. 250 volt	100	.10
8305	Single-pole curved bug cut-out, 5 amp., 125 volt . . .	100	.10
61119	Single-pole electrolier cut-out, for six lights, 125 volt.	100	.10
9478	Bug cut-out, 125 volt	250	.18

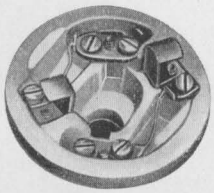
CEILING ROSETTES

GĒco Rosettes are so designed as to maintain all the attractive features of the standard line, and yet add much to them in the saving in size and weight. Every opportunity to save space has been taken and the smallest and most attractive line on the market is the result. Made double-pole, fused for 125 volts and fuseless for 250 volts. The caps are interchangeable on any form of base.

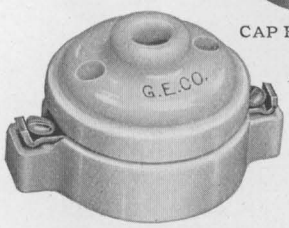
In the rosettes for concealed work the depth of the base should be noted; these are made especially deep and space is left in the back for the projecting ends of tubes and make wiring easy.



CAP FOR 250 VOLTS



CAP FOR 125 VOLTS



Cat. No. 39234



Cat. No. 39236



Cat. No. 39238

Cat. No.	Description	Std. Pkg.	List Price
39234	GĒco, D.P., fused, for cleat work, 125 volts . .	500	$0.15
39236	GĒco, D.P., fused, for concealed work, 125 volts . .	500	.15
39238	GĒco, D.P., fused, for molding work, 125 volts . .	250	.15
39235	GĒco, fuseless, for cleat work, 250 volts . . .	500	.12
39237	GĒco, fuseless, for concealed work, 250 volts . .	500	.12
39239	GĒco, fuseless, for molding work, 250 volts . .	250	.12

CEILING ROSETTES



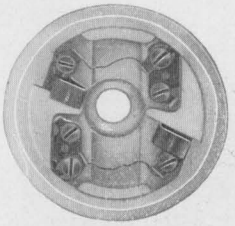
Cat. Nos. 60124 and 40496



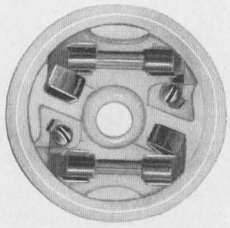
Cat. Nos. 60123 and 32578



Cat. Nos. 60396 and 40497



CAP FOR 125 VOLTS

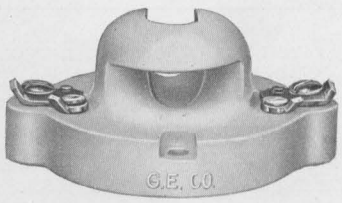


CAP FOR 250 VOLTS

Cat. No.	Description	Std. Pkg.	List Price
60123	Double pole, link fuses, for cleat work, 125 volts	250	$0.26
60124	Double pole, link fuses, for concealed work, 125 volts	250	.26
60396	Double pole, link fuses, for molding work, 125 volts	250	.26
43574	Double pole, link fuses, for cleat work, 125 volts, cast terminal lugs	250	.28
32578	Double pole, glass tube fuses, 250 volts, for cleat work	250	.30
40496	Double pole, glass tube fuses, 250 volts, for concealed work	250	.30
40497	Double pole, glass tube fuses, 250 volts, for molding work	250	.30
43575	Double pole, glass tube fuses, for cleat work, 250 volts, cast terminal lugs	250	.32
40414	Double pole cap, 250 volts, can be used to make 60123, 60124 and 60396, suitable for 250 volt work	250	.20
32579	Two-ampere glass tube fuse, for the above 250 volt rosettes	100	.05



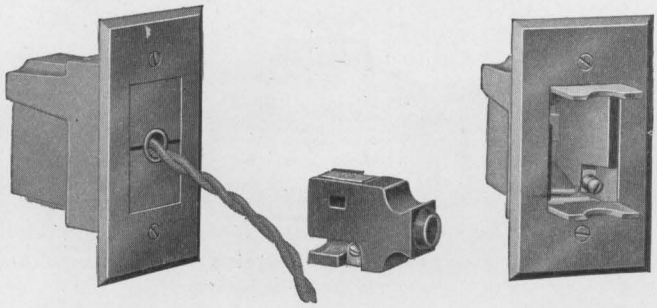
Cat. No. 34356



Cat. No. 43111

Cat. No.	Description	Std. Pkg.	List Price
60474	One piece, fuseless, 125 volts, for cleat work (round)	500	$0.16
34356	Fuseless, for molding work, 250 volts	250	.20
43111	One piece, fuseless, 250 volts, for cleat work (round)	500	.11

FLUSH POCKET WALL RECEPTACLES



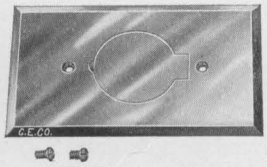
Cat. Nos. 33441 and 33442

Receptacle, Cat. No. 36817, is designed for use with Standard Edison Attaching Plugs of 125 or 250 volt circuits. It does not require special attaching plugs which could not be used in other sockets and receptacles in the same installation, and is of attractive appearance whether in use or not. The face plate is of heavy brass with a polished nickel finish as standard. Other finishes can be furnished if so desired. (Attaching plugs are listed on page 283.)

Receptacle and Plug, Cat. No. 33441, have many advantages. The face plate is entirely flush whether the plug is in use or not, the small doors being fitted with a spring attachment holding them either closed or open under tension. The body of both plug and receptacle is made of porcelain, amply proportioned to withstand severe usage. Binding posts are readily accessible. Standard finish of face plate is polished brass. Other finishes can be furnished if desired.



Cat. No. 36817



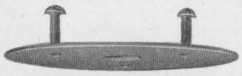
Cat. No. 36818

Cat. No.	Description	Std. Pkg.	List Price
36817	Flush receptacle, for Edison base attaching plugs	25	$0.40
36818	Nickel cover, for Cat. No. 36817	25	.60
33441	Flush receptacle, complete with plate and plug	25	1.85
38297	Flush receptacle, with plate	25	1.35
38298	Flush receptacle, without plate	25	.70
33442	Plug only	25	.50
38299	Single plate, for Cat. No. 38298	25	.65
38360	Two-gang plate, for two receptacles, Cat. No. 38298		2.40
38361	Three-gang plate, for three receptacles, Cat. No. 38298		3.60
38362	Four-gang plate, for four receptacles, Cat. No. 38298		4.80
38363	Five-gang plate, for five receptacles, Cat. No. 38298		6.00
38364	Six-gang plate, for six receptacles, Cat. No. 38298		7.20
38365	Seven-gang plate, for seven receptacles, Cat. No. 38298		8.40
38366	Eight-gang plate, for eight receptacles, Cat. No. 38298		9.60

GE ALL-PORCELAIN WIRELESS CLUSTERS



Cat. No. 45210



Cat. No. 44166



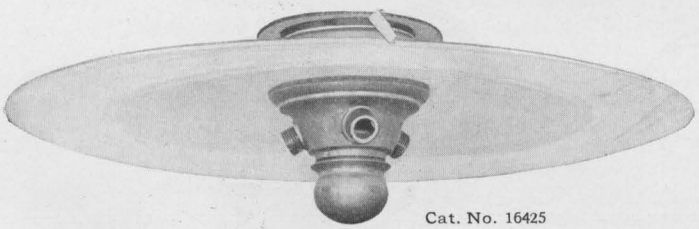
Cat. No. 40519

These All Porcelain Clusters conform with reflectors, shades, or ceilings, and have no metal shells to tarnish or come in contact with conducting parts. Covers can be removed and replaced, after connecting up, without the aid of a screwdriver. This saves time in installing. Flange plates for connecting to ⅜ in. iron pipe make the clusters suitable for suspension or fixture work. The clusters are adapted for use with standard cluster shade holders.

Cat. No.	Description	Package Quantity	List Price
40517	Two light, multiple, for attachment to ceiling	25	$0.75
45208	Two light, multiple, with flange for fixtures	25	.90
40518	Two light, series, for attachment to ceiling	25	.75
45209	Two light, series, with flange for fixtures	25	.90
44165	Flange only, tapped ⅜ in. pipe, for two light cluster, series or multiple	25	.15
40519	Three light, multiple, for attachment to ceiling	25	1.00
45210	Three light, multiple, with flange for fixtures	25	1.15
40520	Three light, series, for attachment to ceiling	25	1.00
45211	Three light, series, with flange for fixtures	25	1.15
44166	Flange only, tapped ⅜ in. pipe, for three light cluster, series of multiple	25	.15
40521	Five light, multiple, for attachment to ceiling	25	1.50
45212	Five light, multiple, with flange for fixtures	25	1.65
40522	Five light, series, for attachment to ceiling	25	1.50
45213	Five light, series, with flange for fixtures	25	1.65
44167	Flange, only, tapped ⅜ in. pipe, for five light cluster, series or multiple	25	.15

CLUSTERS FOR STREET CAR LIGHTS

For Use with Standard Lamp Sockets with 3-8″ Nozzles



Cat. No. 16425

Cat. No	Description	List Price
14306	Two-light, complete	$2.50
16425	Three-light, complete	2.50
14307	Four-light, complete	2.75
14308	Five-light, complete	2.75

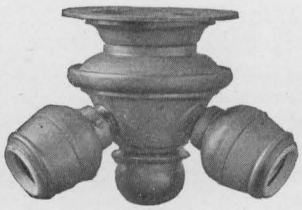
FIXTURES FOR 500 VOLT SOCKETS



Cat. Nos. 50705 and 50702



Cat. Nos. 50707 and 50702



Cat. Nos. 50708 and 50702

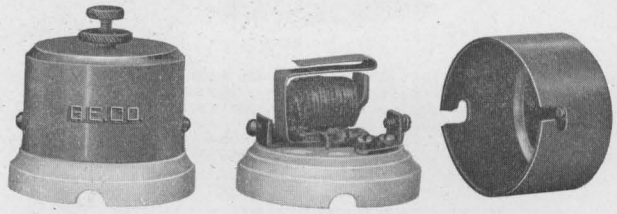


Cat. Nos. 50706 and 50702

Cat. No.	Description	Std. Pkg.	List Price	Cat. No.	Description	Std. Pkg.	List Price
50705	One-light support, for sockets Nos. 50701, 50702, 32440, 32442	25	$1.50	50707	Two-light cluster, for Nos. 50701, 50702	25	$2.50
50706	One-light pilot bracket, for Nos. 50701, 50702	25	3.25	50708	Three-light cluster, for Nos. 50701, 50702	25	4.50
				38938	Three-light cluster, for Nos. 25709, 25710, 32441, 32443.	25	4.50

ALTERNATING CURRENT BUZZER

This buzzer is used to indicate when incandescent lamps placed in obscure places are left burning. It is connected in series with the lamps so that when they are lighted, the current passing through the coil, which is wound on a soft steel core, causes a flat steel spring to vibrate rapidly and produce a buzzing sound.



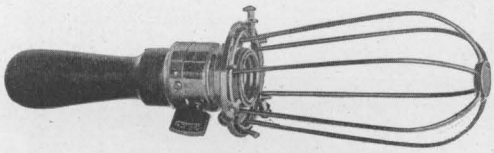
EXTERIOR AND INTERIOR OF ALTERNATING CURRENT BUZZER

A means of sound adjustment is provided by a set-screw in the cover. The candlepower of the lamps is not affected on account of the very low resistance of the coil, and as the device neither makes nor breaks the circuit, it produces no fluctuation of the lights.

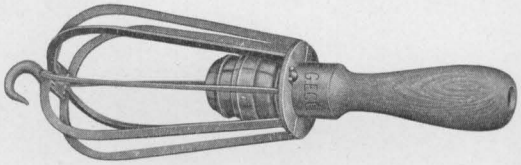
This buzzer is furnished with a polished brass cover having a fiber lining, and is designed for alternating current circuits only.

Cat. No.	Description	Std. Pkg.	List Price
32430	A.C. buzzer, 3 ampere, 125 volts	100	$0.50

PORTABLE LAMP GUARDS



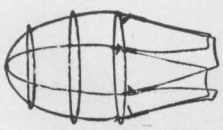
Cat. No. 4339



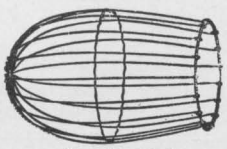
Cat. No. 42681

Cat. No.	Description	Std. Pkg.	List Price
4339	With key socket, for Edison lamps	25	$1.25
4561	With keyless socket, for Edison lamps	25	1.00
25701	With steel wire guard and key socket, Cat. No. 9386, for Edison screw base lamps	25	2.50
4974	With key socket, for T-H lamps	25	1.25
4975	With keyless socket, for T-H lamps	25	1.00
42681	With keyless socket, Cat. No. 32440, extra heavy steel ribbon guard	25	2.50

WIRE LAMP GUARDS



Cat. No. 8909



Cat. No. 8927

Cat. No.	Description	Std. Pkg.	List Price
8909	Expanding, tinned per gro.	144	$20.00
8047	Expanding, brass per gro.	144	28.00
8927	Cage, tinned . per gro.	144	22.00

SHADE HOLDERS



Cat. No. 6080



Cat. No. 41180



Cat. No. 71737



Cat. No. 9515

Cat. No.	Description	Std. Pkg.	List Price
6080	2¼″ Clamp Shade Holder, to fit Edison or T-H sockets . . . . per gro.	144	$ 8.40
6085	3¼″ Clamp Shade Holder, to fit Edison or T-H sockets . . . . per gro.	144	14.50
41180	2¼″ Ring Clamp Shade Holder, to fit Edison or T-H sockets . . . . per gro.	720	9.00
41181	3¼″ Ring Clamp Shade Holder, to fit Edison or T-H sockets . . . . per gro.	144	18.00
71737	Shade Holder, for Edison and T-H weatherproof sockets and 500 volt weather-proof sockets shown on pages 276, 278 and 279 . . . . per gro.	144	18.00
9515	Shade Holder, for flush pocket receptacle . . . . . per gro.	144	21.60

SOCKET PLUGS AND BUSHINGS



Cat. No. 9165



Cat. No. 10509



Cat. No. 10510



Cat. No. 10922

Cat. No.	Description	Std. Pkg.	List Price
9165	Rubberite socket plug (⅜″–28 thread for ⅛″ pipe) . . . . . per 100	1000	$0.75
50787	Rubberite socket plug (for ⅜″ pipe) . . . . . per 100	100	1.00
10509	Soft rubber socket plug (for ⅛″ pipe) . . . . . per 100	1000	.90
10510	Wooden socket plug (for ⅛″ pipe) . . . . . per 100	1000	1.20
10922	Rubberite socket bushing (⅜″–28 thread for ⅛″ pipe) . . . . . per 100	1000	1.00

EDISON SOCKET RINGS



Cat. No. 50846



Cat. No. 31796



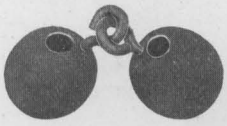
Cat. No. 9399



Cat. No. 50866

Cat. No.	Description	Std. Pkg.	List Price
50846	Composition ring, double flange	100	$0.04
31796	Composition ring, single flange	100	.04
50866	Porcelain ring, single flange	100	.05
9399	Soft rubber ring, for weatherproof sockets, per 100	100	3.50

CORD ADJUSTERS



Cat. 7769



Cat. No. 9142



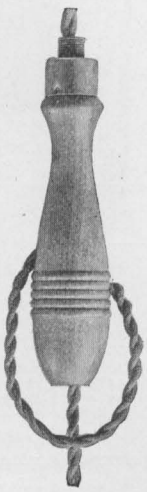
Cat. No. 5559

Cat. No. For Cord with 1/64 ins.	Std. Pkg.	List Price	Cat. No. For Cord with 3/32 ins.	Std. Pkg.	List Price	Description
9093	100	$0.90	50791	100	$0.90	Ball, stained cherry
9094	100	.90	50792	100	.90	Ball, plain maple
7769	100	3.75	50793	100	4.50	Linked ball
9142	100	.70	50794	100	.75	Bar, stained cherry
9064	100	.75	50795	100	.90	Bar, black enameled
5559	100	.90	5559	100	.90	Flat



Cat. No. 9093

Cat. No.	Description	Std. Pkg.	List Price Per 100
50780	Combination socket handle and adjuster, for sockets with ⅛″ pipe tap	100	$ 9.00
50781	Combination socket handle and adjuster, for sockets with ⅜″ pipe tap	100	14.00



Cat. No. 50780

SMALL SWITCHES

Snap Switches for 125 and 250 Volts



Cat. No. 30342



Cat. No. 34444



Cat. No. 34264



Cat. No. 21644



Cat. No. 28842

Cat. No.	Description	Std. Pkg.	List Price
65102	Double-pole ratchet switch, 25 amperes, 125 volts	50	$1.20
65122	Double-pole ratchet switch, 50 amperes, 125 volts	25	1.85
65097	Double-pole ratchet switch, 10 amperes, 125 volts, for interior conduit	25	.65
28842	Single-pole key switch, 1 ampere, 250 volts	100	.35
30342	Single-pole ceiling switch, 5 amperes, 250 volts; 10 amperes, 125 volts	25	1.25
34264	Single-pole snap switch, 5 amperes, 250 volts; 10 amperes, 125 volts	250	.32
39134	Single-pole snap switch, 5 amperes, 250 volts; 10 amperes, 125 volts, indicating	250	.32
34443	Three-way snap switch, 5 amperes, 250 volts; 10 amperes, 125 volts	50	.50
34444	Double-pole snap switch, 10 amperes, 250 volts	100	.66
39135	Double-pole snap switch, 10 amperes, 250 volts, indicating	100	.66
34445	Three-way snap switch, 10 amperes, 250 volts	30	.66
34446	Four-way snap switch, 10 amperes, 250 volts	5	.66
37895	Sub-base, for 34264, 34443 and 39134	100	.06
37896	Sub-base, for 34444, 34445, 34446 and 39135	100	.06

For 500 Volt Circuits

21645	Single-pole snap switch, 3 amperes, porcelain	50	$0.90
21644	Three-way snap switch, 3 amperes, porcelain	50	1.00
27682	Combined switch and enclosed fuse cut-out, 3 amperes	50	1.20
28839	Enclosed fuse, 3 amp., 600 volts, for Cat. No. 27682	100	.20

PENDANT SWITCHES



Cat. No. 28841



Cat. No. 42862



Cat. No. 50725

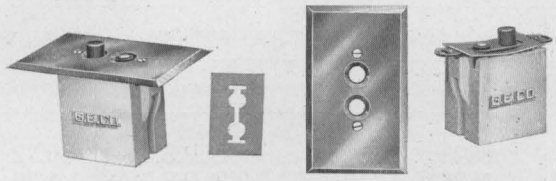


Cat. No. 50712

Cat. No.	Description	Std. Pkg.	List Price
43755	Push button switch, 5 amperes, 125 volts, with ⅛″ nozzle	100	$0.50
38647	Push button switch, 5 amperes, 125 volts, with ¼″ nozzle	100	.60
50712	Push button switch, 5 amperes, 125 volts, with double insulating bushing	100	.50
43756	Push button switch, 5 amperes, 250 volts, 10 amperes, 125 volts, with ⅛″ nozzle	100	.80
35249	Push button switch, 5 amperes, 250 volts, 10 amperes, 125 volts, with ¼″ nozzle	100	.90
50725	Push button switch, 5 amperes. 250 volts, 10 amperes, 125 volts, with double insulating bushing	100	.80
28841	Key switch, 1 ampere, 250 volts	100	.35
44145	Double push button switch, 5 amperes, 250 volts, 10 amperes, 125 volts with ⅛″ nozzle	100	.80
44146	Double push button switch, 5 amperes, 250 volts, 10 amperes, 125 volts, with ¼″ nozzle	100	.90
42862	Double push button switch, 5 amperes, 250 volts, 10 amperes, 125 volts, with double insulating bushing	100	.80

SMALL SWITCHES

Double Push-Button Flush Pocket Switch



DOUBLE PUSH-BUTTON SWITCH

The moving parts of this switch, with the exception of the contact parts, of which there is a minimum number, are made of hardened steel for the purpose of insuring long life, and are copper-plated.

The switch has a short push and a positive action. It is made single-pole, double-pole, three-way and four-way.

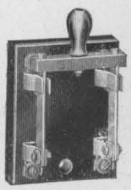
Cat. No.	Description	Pack. Quan.	List Price
36078	Single pole switch complete without plate, 5 amperes, 250 volts	50	**$1.15**
36079	Double pole switch complete without plate, 10 amperes, 250 volts	50	**1.65**
36080	Three-way switch complete without plate, 5 amperes, 250 volts	50	**1.65**
39398	Four-way switch complete without plate, 5 amperes, 250 volts	5	**3.25**
36799	Plate only, with two screws	50	**.35**
37645	Seamless outlet box	50	**.50**

Gang plates for the above switches can be furnished at the same price per switch as the single plate; i.e., two gang plates, **$0.70;** three-gang plate, **$1.05,** etc.

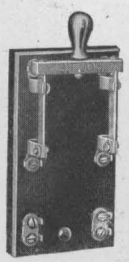
Switches in gangs, spaced $1\frac{3}{16}$″ on centers.

AIR BREAK SWITCHES

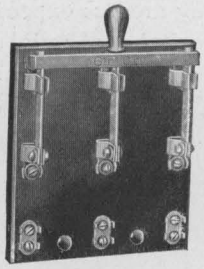
Gēco Knife Switches



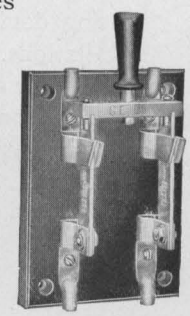
25 AMP. DOUBLE POLE WITHOUT FUSES



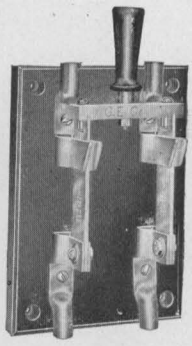
15 AMP. DOUBLE POLE WITH OPEN LINK FUSES



15 AMP. TRIPLE POLE WITH OPEN LINK FUSES



75 AMP. DOUBLE POLE WITHOUT FUSES



150 AMP. DOUBLE POLE WITHOUT FUSES

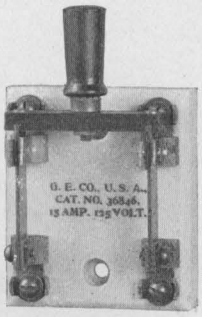
All Copper, Single Throw, Front Connected, Slate Base Switches, Single, Double and Triple Pole, with and without Open Link Fuses, are made of the very best material with all copper blades and clips, and mounted on slate bases. The switches are furnished with proper terminal connections, and all conducting parts are pure copper, with dipped and lacquered finish. These switches are correctly designed for 250 volts direct current. Switches of 100 amp. capacity and over can be used on 500 volts alternating current.

AIR BREAK SWITCHES

Gēco Knife Switches—Continued

With Open Link Fuse Connections				Without Fuse Connections			
Cat. No.	Amperes	Description	List Price	Cat. No.	Amperes	Description	List Price
38263	15	D.P.S.T.	$0.80	38280	15	D.P.S.T.	$0.72
38264	15	T.P.S.T.	1.45	38281	15	T.P.S.T.	1.32
38265	25	S.P.S.T.	.80	38282	25	S.P.S.T.	.72
38266	25	D.P.S.T.	1.06	38283	25	D.P.S.T.	.96
38267	25	T.P.S.T.	1.85	38284	25	T.P.S.T.	1.68
38268	50	S.P.S.T.	1.45	38285	50	S.P.S.T.	1.32
38269	50	D.P.S.T.	1.98	38286	50	D.P.S.T.	1.80
38270	50	T.P.S.T.	3.03	38287	50	T.P.S.T.	2.76
38271	75	S.P.S.T.	1.98	38288	75	S.P.S.T.	1.80
38272	75	D.P.S.T.	2.97	38289	75	D.P.S.T.	2.70
38273	75	T.P.S.T.	4.55	38290	75	T.P.S.T.	4.14
38274	100	S.P.S.T.	2.64	38291	100	S.P.S.T.	2.40
38275	100	D.P.S.T.	3.70	38292	100	D.P.S.T.	3.36
38276	100	T.P.S.T.	5.94	38293	100	T.P.S.T.	5.40
38277	150	S.P.S.T.	3.63	38294	150	S.P.S.T.	3.30
38278	150	D.P.S.T.	6.00	38295	150	D.P.S.T.	5.47
38279	150	T.P.S.T.	8.55	38296	150	T.P.S.T.	7.78

An assortment of 10 of the above switches will constitute a standard package.

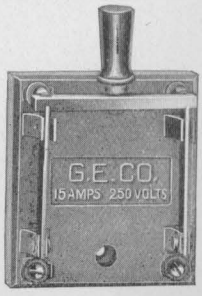


Cat. No. 36846
15 AMPERES, 125 VOLTS ON PORCELAIN BASE

15 Ampere Punched Clip Lever Switches

These switches are strong and durable, approved by the Underwriters, and especially adaptable for use with arc lamps, heating devices, small motors and similar installations. They are less expensive than double-pole snap switches of equal capacity.

Made only in the styles shown; double-pole, single throw, front connected on bases, fuseless.



Cat. No. 42503
15 AMPERES, 250 VOLTS ON SLATE BASE

Cat. No.	Description	Standard Package	List Price
36846	D.P.S.T. 15 Amp., 125 Volt P. C. Switch . . .	250	$0.42
42503	D.P.S.T. 15 Amp., 250 Volt P. C. Switch . . .	250	.50

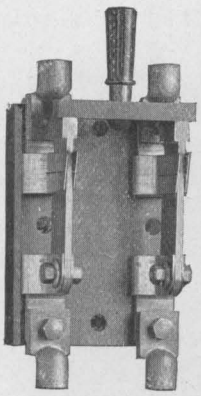
AIR BREAK SWITCHES

Punched Clip Lever Switches

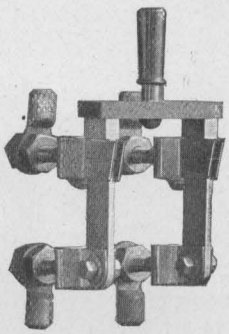
Limits: Potential, 125 to 250 Volts; Current, 25 to 300 Amperes

Single, Double and Triple-Pole; Single and Double-Throw; With and Without Bases; With and Without Fuse Connections

Punched Clip Lever Switches are designed to meet the demand for inexpensive but efficient standard low potential switches.



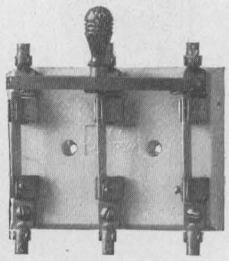
Cat. No. 57774



Cat. No. 57783



Cat. No. 21400



Cat. No. 19524

All Punched Clip Lever Switches when mounted on bases are front connected. When furnished without bases these switches are provided with nuts and cable terminals complete. All metal parts are natural metal. The handles are of wood, stained black. Switches of 300 ampere capacity have slate bases; all other sizes have porcelain bases.

For Fuses — With Bases — Without Fuses

Cat. No. 125 Volts	Cat. No. 250 Volts	Amperes	Description	List Price	Cat. No. 125 Volts	Cat. No. 250 Volts	Amperes	Description	List Price
19500	21402	25	D.P.S.T.	$ 0.85		21400	25	S.P.S.T.	$ 0.65
19502		25	D.P.D.T.	1.25	71027	21404	25	D.P.S.T.	.70
19250	21408	25	T.P.S.T.	1.60	19504	21406	25	D.P.D.T.	1.15
19501	21403	50	D.P.S.T.	1.35	19251	21410	25	T.P.S.T.	1.40
19503		50	D.P.D.T.	2.10		21401	50	S.P.S.T.	.85
19525	21409	50	T.P S.T.	2.00	71028	21405	50	D.P.S.T.	1.10
	42634	75	D.P.S.T.	2.75	19505	21407	50	D.P.D.T.	1.60
	42635	75	T.P.S.T.	4.40	19524	21411	50	T.P.S.T.	1.75
	42636	150	D.P.S.T.	5.00		42630	75	D.P.S.T.	2.25
	42637	150	T.P.S.T.	7.00		42631	75	T.P.S.T.	3.45
	57776	300	D.P.S.T.	13.00		42632	150	D.P.S.T.	4.00
	57777	300	T.P.S.T.	20.00		42633	150	T.P.S.T.	6.00
						57774	300	D.P.S.T.	11.50
						57775	300	T.P.S.T.	17.00

For Fuses — Without Bases — Without Fuses

19506	23940	25	D.P.S.T.	$ 2.00		23938	25	S.P.S.T.	$ 1.00
19508		25	D.P.D.T.	3.00	19510	23942	25	D.P.S.T.	1.90
19523	23946	25	T.P.S.T.	3.00	19512	23944	25	D P.D.T.	2.75
19507	23941	50	D.P.S.T.	2.10	19522	23948	25	T.P.S.T.	2.75
19509		50	D.P.D.T.	3.25		23939	50	S.P.S.T.	1.10
19527	23947	50	T.P.S.T.	3.25	19511	23943	50	D.P.S.T.	2.00
	57787	300	D.P.S.T.	18.50	19513	23945	50	D.P.D.T.	3.00
	57788	300	T.P.S.T.	23.50	19526	23949	50	T.P.S.T.	3.00
						57783	300	D.P.S.T.	15.00
						57786	300	T.P.S.T.	20.00

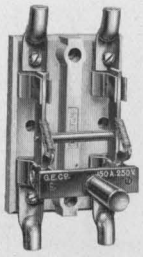
NOTE. An assortment of 10 of above switches will constitute a standard package.

AIR BREAK SWITCHES

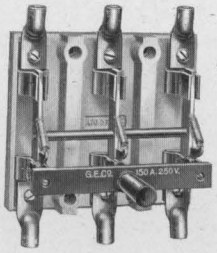
Punched Clip Spring Switches

Limits: 75 and 150 Amperes, 250 Volts; 30 and 75 Amperes, 500 Volts
Single, Double and Triple-Pole; Single-Throw; With and Without Bases; With and Without Fuse Connections

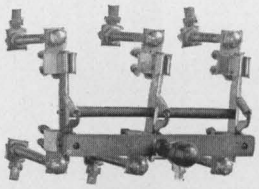
Punched Clip Spring Switches are low priced quick break switches for moderate potentials, and small capacity.



Cat. No. 57514



Cat. No. 57516



Cat. No. 57785

These switches are particularly well adapted for use in connection with small and medium size motors. All these switches on bases are made for front connection. When furnished without bases they are provided with nuts and cable terminals.

All metal parts have natural metal finish. The handles are of wood, stained black; 250 volt switches have porcelain bases; 500 volt, slate bases.

For Fuses — With Bases — Without Fuses

Cat. No. 125 Volts	Cat. No. 250 Volts	Amperes	Description	List Price	Cat. No. 250 Volts	Cat. No. 500 Volts	Amperes	Description	List Price
	57509	75	D.P.S.T.	**$4.00**		57750	30	S.P.S.T.	**$2.00**
	57511	75	T.P.S.T.	**6.00**		57751	30	D.P.S.T.	**4.00**
	57515	150	D.P.S.T.	**6.50**		57752	30	T.P.S.P.	**6.00**
	57517	150	T.P.S.T.	**9.50**		57753	75	S.P.S.T.	**3.00**
						57754	75	D.P.S.P.	**5.50**
						57755	75	T.P.S.T.	**8.00**
					57508		75	D.P.S.T.	**3.50**
					57510		75	T.P.S.T.	**5.00**
					57514		150	D.P.S.T.	**5.50**
					57516		150	T.P.S.T.	**8.00**

For Fuses — Without Bases — Without Fuses

	57725	75	D.P.S.P.	**$ 5.00**		57789	30	S.P.S.T.	**$ 2.35**
	57731	75	T.P.S.P.	**7.50**		57792	30	D.P.S.T.	**4.50**
	57726	150	D.P.S.P.	**8.00**		57795	30	T.P.S.T.	**6.75**
	57732	150	T.P.S.P.	**12.00**		57790	75	S.P.S.T.	**3.50**
					57781		75	D.P.S.T.	**4.50**
						57793	75	D.P.S.T.	**7.50**
					57784		75	T.P.S.T.	**6.75**
						57796	75	T.P.S.T.	**10.00**
					57782		150	D.P.S.T.	**7.00**
					57785		150	T.P.S.T.	**10.50**

NOTE.—An assortment of 10 of the above switches will constitute a standard package.

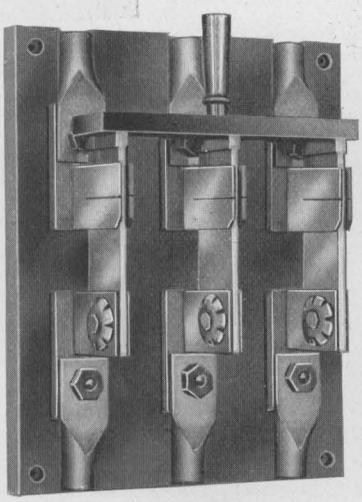
AIR BREAK SWITCHES

Form D-12 Lever Switches

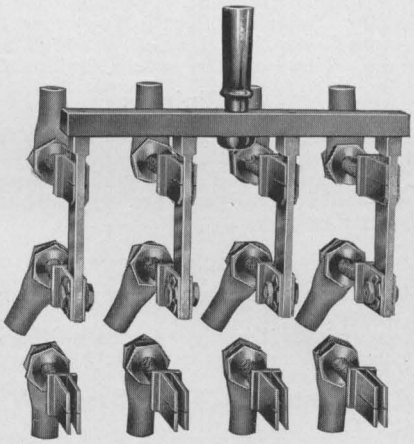
Limits: Potential, 250 Volts Direct Current; 500 Volts Alternating Current; 30 to 6000 Amperes

Single, Double, Triple and Four-Pole; Single and Double-Throw; With and Without Bases; With and Without Fuse Connections

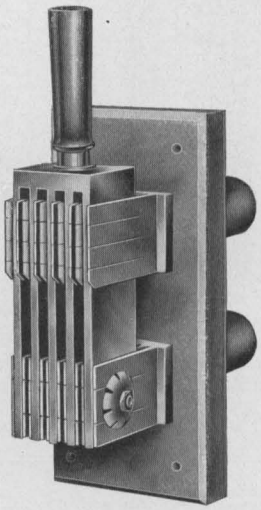
The Form D-12 Lever Switch is a high-grade lever switch of maximum strength and endurance. The clip block and stud are forged in a single piece, thus overcoming the not uncommon trouble incident to separation of block and stud. The clips are both pinned and soldered into the clip block. The mechanical connection of the cross-bar to the blades is unusually heavy, as is also the attachment of the handle to the cross-bar. All live parts are of rolled copper. All metal parts on face of base or panel have a high-grade hand finish and heavy lacquer.



TRIPLE-POLE, SINGLE-THROW, FRONT CONNECTED SWITCH



FOUR-POLE, DOUBLE-THROW, BACK CONNECTED SWITCH



SINGLE-POLE, SINGLE-THROW, BACK CONNECTED SWITCH

The cross-bar is of heavy fiber, especially selected, and the handles are of hard wood, stained black and polished. These switches conform to the underwriters' requirements and supersede the General Electric Company's Forms C, D, D-2 and T-H Switches. Form D-12 Lever Switches without bases are back connected. Based switches include screws for attachment. The contact surfaces are liberal, and when properly adjusted and attached to the system the Form D-12 Lever Switch may be used continuously under full load with a temperature rise not exceeding 50 degrees Fahrenheit.

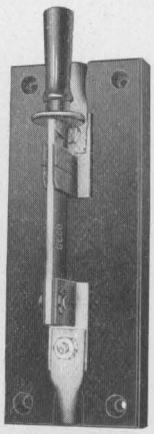
These switches are furnished complete with contact nuts and cable terminals, which are included in the price.

Terminals of the latest design and of best copper are furnished with these switches, and are suitable for wire or cable of the maximum capacity of the switch. Switches of 2000 amperes and above are not provided with terminals and the catalogue number does not include terminals.

Bases furnished with these switches are dull black finished slate.

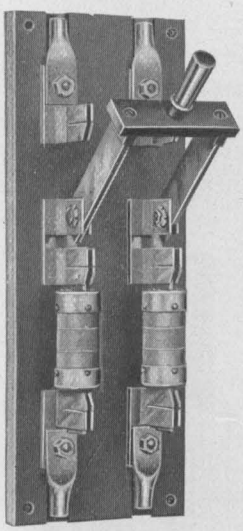
LEVER SWITCHES

Type L, Form D-12



Cat. No. 41624

Form D-12 lever switches are made front and back connected, single, double, triple and four-pole, single and double-throw. They are furnished with link fuse connections in capacities ranging from 30 to 800 amperes, and with enclosed fuse connections in capacities ranging from 30 to 600 amperes. Back connected switches, without fuse connections, are made in capacities of from 30 to 6000 amperes and front connected switches, without fuse connections, in capacities of from 30 to 800 amperes. These switches were designed for 250 volts direct current and switches of 100 amperes capacity and above without fuses are suitable for use on 500 volt alternating circuits.

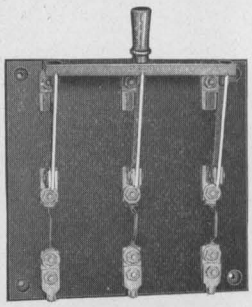


Cat. No. 41809

The front connected switch is mounted on natural black slate. The back connected switch is unmounted, but a drilling template is furnished to facilitate mounting.

All metal parts of these switches are made of the best hard drawn copper, and the switches have been approved by the Board of Fire Underwriters.

For sizes of terminals furnished with each switch see pages 394 to 396. Switches of capacities above 1500 amperes are supplied with but one nut per stud and no cable terminals. These may be ordered independently.



Cat. No. 41674

Finishes

These switches are furnished in two finishes designated by the numbers 1 and 2. No. 1 FINISH:— All metal parts are dipped and heavily lacquered. No. 2 FINISH:— All metal parts are bright polished (buffed) and heavily lacquered.

Placing Orders

Always order by catalogue number, specifying the finish desired.

When reference to finish is omitted, front connected switches will be furnished with No. 1 and back connected switches with No. 2 finish.

Front Connected, Mounted on Slate Bases, Without Fuse Connections

Cat. No.	Ampere Capacity	Description	List Price Finish Dipped	List Price Finish Buffed	Cat. No.	Ampere Capacity	Description	List Price Finish Dipped	List Price Finish Buffed
41600	30	S. P. S. T.	$ 1.15	$ 1.50	41632	300	S. P. S. T.	$ 5.50	$ 6.50
41601	"	D. P. S. T.	2.00	2.70	41633	"	D. P. S. T.	9.00	10.75
41602	"	T. P. S. T.	2.75	3.75	41634	"	T. P. S. T.	12.75	15.25
41603	"	4 P. S. T.	4.25	5.25	41635	"	4 P. S. T.	18.50	22.25
41604	"	S. P. D. T.	1.50	2.00	41636	"	S. P. D. T.	8.50	10.00
41605	"	D. P. D. T.	2.75	3.75	41637	"	D. P. D. T.	12.75	15.25
41606	"	T. P. D. T.	4.00	5.00	41638	"	T. P. D. T.	19.00	23.00
41607	"	4 P. D. T.	6.00	7.50	41639	"	4 P. D. T.	31.50	38.00
41608	60	S. P. S. T.	1.40	1.75	41640	400	S. P. S. T.	7.50	9.00
41609	"	D. P. S. T.	2.50	3.00	41641	"	D. P. S. T.	12.50	15.00
41610	"	T. P. S. T.	3.50	4.25	41642	"	T. P. S. T.	17.50	21.00
41611	"	4 P. S. T.	5.00	6.00	41643	"	4 P. S. T.	25.50	30.50
41612	"	S. P. D. T.	2.00	2.50	41644	"	S. P. D. T	11.50	13.75
41613	"	D. P. D. T.	3.50	4.25	41645	"	D. P. D. T.	17.50	21.00
41614	"	T. P. D. T.	5.50	6.50	41646	"	T. P. D. T.	25.50	30.50
41615	"	4 P. D. T.	7.50	9.50	41647	"	4 P. D T	40.00	48.00
41616	100	S. P. S. T.	2.00	2.50	41648	600	S. P. S. T.	10.00	12.50
41617	"	D. P. S. T.	3.25	4.00	41649	"	D. P. S. T.	17.00	20.50
41618	"	T. P. S. T.	4.50	5.75	41650	"	T. P. S. T.	24.00	28.75
41619	"	4 P. S. T.	8.00	10.00	41651	"	4 P. S. T	34.00	41.00
41620	"	S. P. D. T.	3.00	3.75	41652	"	S. P. D. T.	16.00	19.25
41621	"	D. P. D. T.	4.50	5.75	41653	"	D. P. D. T.	24.00	28.75
41622	"	T. P. D. T.	8.25	10.25	41654	"	T. P. D. T.	34.00	41.00
41623	"	4 P. D. T.	12.00	15.00	41655	"	4 P. D. T.	54.00	65.00
41624	200	S. P. S. T.	3.75	4.50	41656	800	S. P. S. T	12.75	15.25
41625	"	D. P. S. T.	5.50	6.50	41657	"	D. P. S. T.	21.00	25.00
41626	"	T. P. S. T.	8.75	10.50	41658	"	T. P. S. T	30.00	36.00
41627	"	4 P. S. T.	13.00	15.50	41659	"	4 P. S. T.	44.50	53.50
41628	"	S. P. D. T.	5.75	7.00	41660	"	S. P. D. T.	20.00	24.50
41629	"	D. P. D. T.	8.75	10.50	41661	"	D. P. D. T.	30.00	36.00
41630	"	T. P. D. T.	13.50	16.25	41662	"	T. P. D. T.	44.50	53.50
41631	"	4 P. D. T.	23.00	27.75	41663	"	4 P. D. T.	70.00	84.00

LEVER SWITCHES

Type L, Form D-12, 250 Volts

Front Connected, Mounted on Slate Bases, With Connections For Open Link Fuses

Cat. No.	Ampere Capacity	Description	List Price		Cat. No.	Ampere Capacity	Description	List Price	
			Finish					Finish	
			Dipped	Buffed				Dipped	Buffed
41672	30	S. P. S. T.	$ 1.40	$ 1.75	41704	300	S. P. S. T.	$ 6.75	$ 8.00
41673	"	D. P. S. T.	2.30	3.00	41705	"	D. P. S. T.	10.50	12.50
41674	"	T. P. S. T.	3.25	4.50	41706	"	T. P. S. T.	15.00	18.00
41675	"	4 P. S. T.	5.25	5.75	41707	"	4 P. S. T.	22.00	26 75
41676	"	S. P. D. T.	1.75	2.30	41708	"	S. P. D. T.	10.00	12.50
41677	"	D. P. D. T.	3.25	4.50	41709	"	D. P. D. T.	15.00	18.00
41678	"	T. P. D. T.	5.00	6.00	41710	"	T. P. D. T.	22.50	27.00
41679	"	4 P. D. T.	7.25	8.50	41711	"	4 P. D. T.	35.00	42.00
41680	60	S. P. S. T.	1.90	2.50	41712	400	S. P. S. T.	9.00	11.00
41681	"	D. P. S. T.	3.00	3.50	41713	"	D. P. S. T.	14.75	17.50
41682	"	T. P. S. T.	4.50	5.25	41714	"	T. P. S. T.	22.00	26.50
41683	"	4 P. S. T.	6.25	7.50	41715	"	4 P. S. T.	32.00	38.50
41684	"	S. P. D. T.	2.50	3.00	41716	"	S. P. D. T.	13.75	16.50
41685	"	D. P. D. T.	4.50	5.25	41717	"	D. P. D. T.	22.00	26.50
41686	"	T. P. D. T.	6.75	8.00	41718	"	T. P. D. T.	32.00	38.50
41687	"	4 P. D. T.	9.00	11.00	41719	"	4 P. D. T.	50.00	60.00
41688	100	S. P. S. T.	2.75	3.50	41720	600	S. P. S. T.	13.00	15.50
41689	"	D. P. S. T.	4.50	5.75	41721	"	D. P. S. T.	20.00	24.50
41690	"	T. P. S. T.	6.00	7.50	41722	"	T. P. S. T.	30.00	36.50
41691	"	4 P. S. T.	9.25	11.25	41723	"	4 P. S. T.	44.00	53.50
41692	"	S. P. D. T.	4.00	5.00	41724	"	S. P. D. T.	19.75	23.50
41693	"	D. P. D. T.	6.00	7.50	41725	"	D. P. D. T.	30.00	36.50
41694	"	T. P. D. T.	9.50	11.75	41726	"	T. P. D. T.	44.00	53.50
41695	"	4 P. D. T.	13.50	16.75	41727	"	4. P. D. T.	64.00	78.00
41696	200	S. P. S. T.	4.75	5.75	41728	800	S. P. S. T.	15.75	19.00
41697	"	D. P. S. T.	7.25	8.75	41729	"	D. P. S. T.	24.50	29.00
41698	"	T. P. S. T.	10.00	12.00	41730	"	T. P. S. T.	36.00	43.25
41699	"	4 P. S. T.	15.00	18.00	41731	"	4 P. S. T.	54.50	65.50
41700	"	S. P. D. T.	6.75	8.00	41732	"	S. P. D. T.	24.00	28.75
41701	"	D. P. D. T.	10.00	12.50	41733	"	D. P. D. T.	36.00	43.25
41702	"	T. P. D. T.	15.50	18.75	41734	"	T. P. D. T.	54.50	65.50
41703	"	4 P. D. T.	25.00	30.00	41735	"	4 P. D. T.	80.00	96.00

Front Connected, Mounted on Slate Bases, With Connections For National Electrical Code Standard Enclosed Fuses

41792	30	S. P. S. T.	$ 1.75	$ 2.30	41804	200	S. P. S. T.	$ 5.50	$ 6.75
41793	"	D. P. S. T.	2 75	3.75	41805	"	D. P. S. T.	8.25	10.00
41794	"	T. P. S. T.	4.25	5.00	41806	"	T. P. S. T.	12 00	14.50
41795	"	4 P. S. T.	6.25	8.00	41807	"	4 P. S. T.	18.50	22.50
41748	"	S P. D. T.	2.30	3.00	41772	"	S P. D. T	7.75	9.00
41749	"	D. P. D. T.	4.00	5.00	41773	"	D. P. D. T.	11.75	14.50
41750	"	T. P. D. T.	6.25	8.00	41774	"	T. P. D. T.	19.00	23.00
41751	"	4 P. D. T.	9.00	11.25	41775	"	4 P. D T.	29 00	35.00
41796	60	S. P S T.	2.50	3.25	41808	400	S. P. S. T.	11.50	13.50
41797	"	D. P. S. T.	3.90	5.00	41809	"	D. P. S. T.	18.00	21.00
41798	"	T. P. S. T.	5.75	7.00	41810	"	T. P. S. T.	25.00	30.00
41799	"	4 P. S. T.	8.75	11.00	41811	"	4 P. S. T.	37.00	43.00
41756	"	S. P. D. T.	3.50	4.50	41780	"	S. P. D. T.	17.00	20.00
41757	"	D. P. D. T.	5.50	7.00	41781	"	D. P. D. T.	25.00	30.00
41758	"	T. P. D. T.	9.00	11.50	41782	"	T. P. D. T.	37.00	44.00
41759	"	4. P. D. T.	12.00	15.00	41783	"	4 P. D. T.	54.00	65.00
41800	100	S. P. S. T.	3.75	4.50	41812	600	S. P. S. T.	16.50	20.00
41801	"	D. P. S. T.	5.75	7.25	41813	"	D. P. S. T.	24.50	29.00
41802	"	T. P. S. T.	7.75	9.50	41814	"	T. P. S. T.	36.00	43.25
41803	"	4 P. S. T.	12.50	15.75	41815	"	4 P. S. T.	54.50	64.50
41764	"	S. P. D. T.	5.25	6.50	41788	"	S. P. D. T.	24.00	28.75
41765	"	D. P. D. T.	7.50	9.50	41789	"	D. P. D. T.	36.00	43.25
41766	"	T. P. D T.	13.00	16.25	41790	"	T. P. D. T.	54.50	65.50
41767	"	4 P. D. T.	16.50	20.50	41791	"	4 P. D. T.	80.00	96.00

Switches of 100 ampere capacity and above, without fuses, are suitable for use on 500 volt, alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, 250 Volts

Back Connected, For Mounting on Panels, Without Fuse Connections

Cat. No.	Ampere Capacity	Description	List Price Buffed Finish
41816	30	S. P. S. T.	$ 1.50
41817	"	D. P. S. T.	2.70
41818	"	T. P. S. T.	3.75
41819	"	4 P. S. T.	5.25
41820	"	S. P. D. T.	2.00
41821	"	D. P. D. T.	3.75
41822	"	T. P. D. T.	5.00
41823	"	4 P. D. T.	7.50
41824	60	S. P. S. T.	1.75
41825	"	D. P. S. T.	3.00
41826	"	T. P. S. T.	4.25
41827	"	4 P. S. T.	6.00
41828	"	S. P. D. T.	2.50
41829	"	D. P. D. T.	4.25
41830	"	T. P. D. T.	6.50
41831	"	4 P. D. T.	9.50
41832	100	S. P. S. T.	2.50
41833	"	D. P. S. T.	4.00
41834	"	T. P. S. T.	5.75
41835	"	4 P. S. T.	10.00
41836	"	S. P. D. T.	3.75
41837	"	D. P. D. T.	5.75
41838	"	T. P. D. T.	10.25
41839	"	4 P. D. T.	15.00
41840	200	S. P. S. T.	5.00
41841	"	D. P. S. T.	7.25
41842	200	T. P. S. T.	$11.50
41843	"	4 P. S. T.	17.25
41844	"	S. P. D. T.	7.50
41845	"	D. P. D. T.	11.50
41846	"	T. P. D. T.	17.75
41847	"	4 P. D. T.	30.00
41848	300	S. P. S. T.	7.50
41849	"	D. P. S. T.	12.50
41850	"	T P. S. T.	17.50
41851	"	4 P. S. T.	25.50
41852	"	S. P. D. T.	11.75
41853	"	D. P. D. T.	17.50
41854	"	T. P. D. T.	26.00
41855	"	4 P. D. T.	43.50
41856	400	S. P. S. T.	10.00
41857	"	D. P. S. T.	17.00
41858	"	T. P. S. T.	24.00
41859	"	4 P. S. T.	35.00
41860	"	S. P. D T.	16.00
41861	"	D. P. D. T.	24.00
41862	"	T. P. D. T.	35.00
41863	"	4 P. D. T.	57.00
41864	600	S. P. S. T.	15.00
41865	"	D. P. S. T.	24.00
41866	"	T. P. S. T.	36.00
41867	"	4 P. S. T.	55.00

Back Connected, For Mounting on Panels, Without Fuse Connections

41868	600	S. P D. T.	$ 23.00
41869	"	D. P. D. T.	36.00
41870	"	T. P D. T.	55.00
41871	"	4 P. D. T.	80.00
41872	800	S. P. S. T.	21.75
41873	"	D. P. S. T.	35.25
41874	"	T. P. S. T.	50.50
41875	"	4 P. S T.	73.00
41876	"	S. P. D. T.	34.50
41877	"	D. P. D. T.	50.50
41878	"	T. P. D. T.	75.00
41879	"	4 P. D. T.	117.50
41880	1000	S P. S. T.	38.00
41881	"	D. P. S T.	76.00
41882	"	T. P. S. T.	121.00
41883	"	4 P. S. T.	*
41884	"	S. P. D. T.	52.00
41885	"	D. P. D. T.	104.00
41886	"	T. P. D. T.	*
41887	"	4 P. D. T.	*
41888	1200	S. P. S. T.	44.50
41889	"	D. P. S. T.	89.00
41890	"	T. P. S. T.	137.00
41891	"	4 P. S. T.	*
41892	"	S. P. D. T.	61.00
41893	"	D. P. D. T.	122.00
41894	"	T. P. D.T.	*
41895	"	4 P. D. T.	*
41896	1500	S P. S. T.	51.00
41897	1500	D. P. S. T.	$102.00
41898	"	T. P. S. T.	153.00
41899	"	4 P. S. T.	*
41900	"	S. P. D. T.	70.00
41901	"	D. P. D. T.	140.00
41902	"	T. P. D. T.	*
41903	"	4 P. D. T.	*
41904	2000	S. P. S. T.	58.00
41905	"	D. P. S. T.	117.00
41906	"	T. P. S. T.	175.00
41907	"	4 P. S. T.	*
41908	"	S. P. D. T.	79.00
41909	"	D. P. D. T.	159.00
41910	"	T. P. D. T.	*
41911	"	4 P. D. T.	*
41912	3000	S. P. S. T.	128.00
41913	"	D. P. S. T.	257.00
41914	"	T. P. S. T.	385.00
41915	"	S. P. D. T.	170.00
41916	"	D. P. D. T.	340.00
41917	"	T P. D. T.	*
41918	4000	S. P. S. T.	146.00
41919	"	D. P. S. T.	292.00
41920	"	S. P. D. T.	206.00
41921	"	D. P. D. T.	413.00
41922	5000	S. P S. T	180.00
41923	"	S P. D. T.	252.00
41924	6000	S. P. S. T.	237.00
41925	"	S. P. D. T.	333.00

Switches of 100 ampere capacity and above, without fuses, are suitable for use on 500 volt alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, 250 Volts

Back Connected, For Mounting on Panels, With Connections For Open Link Fuses

Cat. No.	Ampere Capacity	Description	List Price Buffed Finish	Cat. No.	Ampere Capacity	Description	List Price Buffed Finish
41926	30	S. P. S. T.	$ 1.75	41958	300	S. P. S. T.	$ 9.25
41927	"	D. P. S. T.	3.00	41959	"	D. P. S. T.	14.50
41928	"	T. P. S. T.	4.50	41960	"	T. P. S. T.	20.75
41929	"	4 P. S. T.	5.75	41961	"	4 P. S. T.	30.50
41930	"	S. P. D. T.	2.30	41962	"	S. P. D. T.	13.75
41931	"	D. P. D. T.	4.50	41963	"	D. P. D. T.	20.75
41932	"	T. P. D. T.	6.00	41964	"	T. P. D. T.	31.00
41933	"	4 P. D. T.	8.50	41965	"	4 P. D. T.	51.00
41934	60	S. P. S. T.	2.50	41966	400	S. P. S. T.	12.50
41935	"	D. P. S. T.	3.50	41967	"	D. P. S. T.	20.00
41936	"	T. P. S. T.	5.25	41968	"	T. P. S. T.	30.00
41937	"	4 P. S. T.	7.50	41969	"	4 P. S. T.	44.00
41938	"	S. P. D. T.	3.00	41970	"	S. P. D. T.	19.00
41939	"	D. P. D. T.	5.25	41971	"	D. P. D. T.	30.00
41940	"	T. P. D. T.	8.00	41972	"	T. P. D. T.	44.00
41941	"	4. P. D. T.	11.00	41973	"	4 P. D. T.	66.00
41942	100	S. P. S. T.	3.50	41974	600	S. P. S. T.	17.50
41943	"	D. P. S. T.	5.75	41975	"	D. P. S. T.	29.50
41944	"	T. P. S. T.	7.50	41976	"	T. P. S. T.	44.00
41945	"	4 P. S. T.	11.25	41977	"	4 P. S. T.	64.00
41946	"	S. P. D. T.	5.00	41978	"	S. P. D. T.	27.00
41947	"	D. P. D. T.	7.50	41979	"	D. P. D. T.	44.00
41948	"	T. P. D. T.	11.75	41980	"	T. P. D. T.	64.00
41949	"	4 P. D. T.	16.75	41981	"	4 P. D. T.	95.00
41950	200	S. P. S. T.	6.25	41982	800	S. P. S. T.	26.50
41951	"	D. P. S. T.	9.50	41983	"	D. P. S. T.	41.25
41952	"	T. P. S. T.	13.25	41984	"	T. P. S. T.	60.50
41953	"	4 P. S. T.	19.25	41985	"	4 P. S. T.	89.75
41954	"	S. P. D. T.	9.00	41986	"	S. P. D. T.	40.25
41955	"	D. P. D. T.	13.25	41987	"	D. P. D. T.	60.50
41956	"	T. P. D. T.	20.50	41988	"	T. P. D. T.	91.75
41957	"	4 P. D. T.	33.00	41989	"	4 P. D. T.	134.50

Back Connected, for Mounting on Panels, with Connections for National Electrical Code Standard Enclosed Fuses

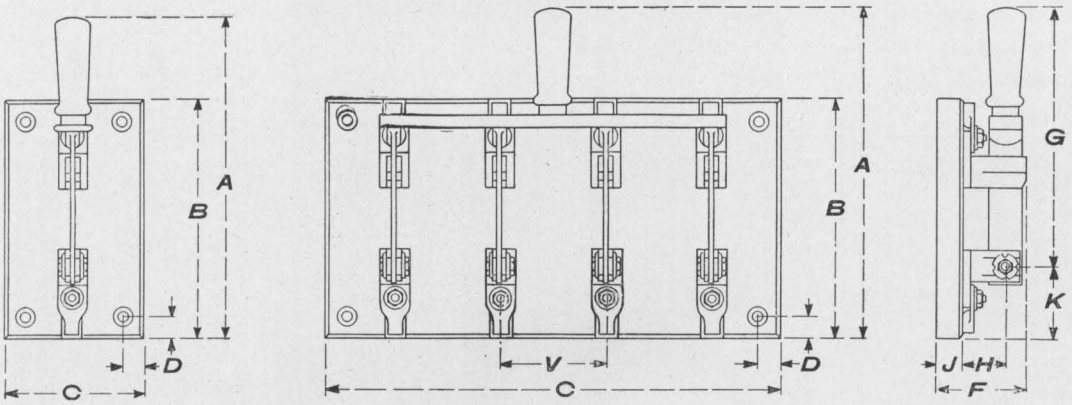
42046	30	S. P. S. T.	$ 2.30	42058	200	S. P. S. T.	$ 7.75
42047	"	D. P. S. T.	4.00	42059	"	D. P. S. T.	11.00
42048	"	T. P. S. T.	5.50	42060	"	T. P. S. T.	17.00
42049	"	4 P. S. T.	8.75	42061	"	4 P. S. T.	25.00
41994	"	S. P. D. T.	3.25	42018	"	S. P. D. T	10.75
41995	"	D. P. D. T.	6.00	42019	"	D. P. D. T.	17.00
41996	"	T. P. D. T.	8.75	42020	"	T. P. D. T.	25.00
41997	"	4 P. D. T.	11.50	42021	"	4 P. D. T.	38.00
42050	60	S. P. S. T.	3.25	42062	400	S. P. S. T.	15.50
42051	"	D. P. S. T.	4.75	42063	"	D. P. S. T.	24.00
42052	"	T. P. S. T.	7.00	42064	"	T. P. S. T.	34.00
42053	"	4 P. S. T.	10.75	42065	"	4 P. S. T.	54.00
42002	"	S. P. D. T.	4.25	42026	"	S. P. D. T.	23.00
42003	"	D. P. D. T.	7.00	42027	"	D. P. D. T.	34.00
42004	"	T. P. D. T.	10.75	42028	"	T. P. D. T.	54.00
42005	"	4 P. D. T.	14.50	42029	"	4 P. D. T.	76.00
42054	100	S. P. S. T.	4.75	42066	600	S. P. S. T.	23.00
42055	"	D. P. S. T.	7.50	42067	"	D. P. S. T.	35.00
42056	"	T. P. S. T.	9.50	42068	"	T. P. S. T.	52.00
42057	"	4 P. S. T.	15.00	42069	"	4 P. S. T.	76.00
42010	"	S. P. D. T.	6.75	42034	"	S. P. D. T.	34.00
42011	"	D. P. D. T.	9.50	42035	"	D. P. D. T.	52.00
42012	"	T. P. D. T.	15.00	42036	"	T. P. D. T.	76.00
42013	"	4. P. D. T.	20.75	42037	"	4 P. D. T.	110.00

Switches of 100 ampere capacity and above, without fuses, are suitable for use on 500 volt alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, Single-Throw, Front Connected on Slate Bases, without Fuse Connections, 250 Volts*

Dimensions



SINGLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41600	5 29/32	4 1/2	2 1/4	7/16	1 9/16	4 9/16	3/4	1/2	1 7/32	
60	41608	7 17/32	6	3	9/16	2 3/32	5 7/8	31/32	3/4	1 21/32	
100	41616	9 13/32	7 1/4	4	9/16	2 3/4	7 9/16	1 1/4	3/4	2 3/32	
200	41624	11 3/8	10 1/2	4	5/8	3 3/16	8 9/16	1 7/16	1	3 7/16	
300	41632	13 3/4	13	4 1/2	5/8	3 9/16	9 9/16	1 11/16	1	4 1/8	
400	41640	15 3/16	14 3/4	4 1/2	11/16	4 3/8	10	2	1 1/4	5 1/16	
600	41648	17 9/16	17 1/4	5 1/4	1	5 1/4	11 5/16	2 1/4	1 1/4	6 1/4	
800	41656	20 3/8	19	5 1/2	1	5 3/4	13 9/16	2 11/16	1 1/2	6 13/16	

DOUBLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41601	5 29/32	4 1/2	4 3/4	7/16	1 9/16	4 11/16	3/4	1/2	1 7/32	2 5/16
60	41609	7 17/32	6	6	9/16	2 3/32	6 1/8	31/32	3/4	1 21/32	2 15/16
100	41617	9 13/32	7 1/4	7	9/16	2 3/4	7 9/16	1 1/4	3/4	2 3/32	3 1/16
200	41625	11 3/8	10 1/2	8	5/8	3 3/16	8 1/2	1 7/16	1	3 7/16	3 3/4
300	41633	14 1/8	13	8 1/2	5/8	3 9/16	9 9/16	1 11/16	1	4 1/8	4
400	41641	15 1/2	14 3/4	9	11/16	4 3/8	10 9/16	2	1 1/4	5 1/16	4 3/8
600	41649	18	17 1/4	10	1	5 1/4	11 3/4	2 1/4	1 1/4	6 1/4	4 7/8
800	41657	20 9/16	19	11	1	5 3/4	13 3/4	2 11/16	1 1/2	6 13/16	5 3/8

TRIPLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41602	5 29/32	4 1/2	7	7/16	1 9/16	4 11/16	3/4	1/2	1 7/32	2 5/16
60	41610	7 17/32	6	9	9/16	2 3/32	6 1/8	31/32	3/4	1 21/32	2 15/16
100	41618	9 13/32	7 1/4	10	9/16	2 3/4	7 9/16	1 1/4	3/4	2 3/32	3 1/16
200	41626	11 3/8	10 1/2	11 1/2	5/8	3 3/16	8 1/2	1 7/16	1	3 7/16	3 3/4
300	41634	14 1/8	13	12 1/2	5/8	3 9/16	9 9/16	1 11/16	1	4 1/8	4
400	41642	15 1/2	14 3/4	13 1/4	11/16	4 3/8	10 5/16	2	1 1/4	5 1/16	4 3/8
600	41650	18	17 1/4	15	1	5 1/4	11 3/4	2 1/4	1 1/4	6 1/4	4 7/8
800	41658	20 9/16	19	16 1/2	1	5 3/4	13 3/4	2 11/16	1 1/2	6 13/16	5 3/8

FOUR-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41603	5 31/32	4 1/2	9 1/2	7/16	1 9/16	4 3/4	3/4	1/2	1 7/32	2 5/16
60	41611	7 27/32	6	12	9/16	2 3/32	6 3/16	31/32	3/4	1 21/32	2 15/16
100	41619	9 25/32	7 1/4	13	9/16	2 3/4	7 5/8	1 1/4	3/4	2 3/32	3 1/16
200	41627	12	10 1/2	15	5/8	3 3/16	8 9/16	1 7/16	1	3 7/16	3 3/4
300	41635	14 3/16	13	16 1/2	5/8	3 9/16	9 5/8	1 11/16	1	4 1/8	4
400	41643	15 9/16	14 3/4	17 3/4	11/16	4 3/8	10 5/8	2	1 1/4	5 1/16	4 3/8
600	41651	18	17 1/4	20	1	5 1/4	11 3/4	2 1/4	1 1/4	6 1/4	4 7/8
800	41659	20 9/16	19	22	1	5 3/4	13 3/4	2 11/16	1 1/2	6 13/16	5 3/8

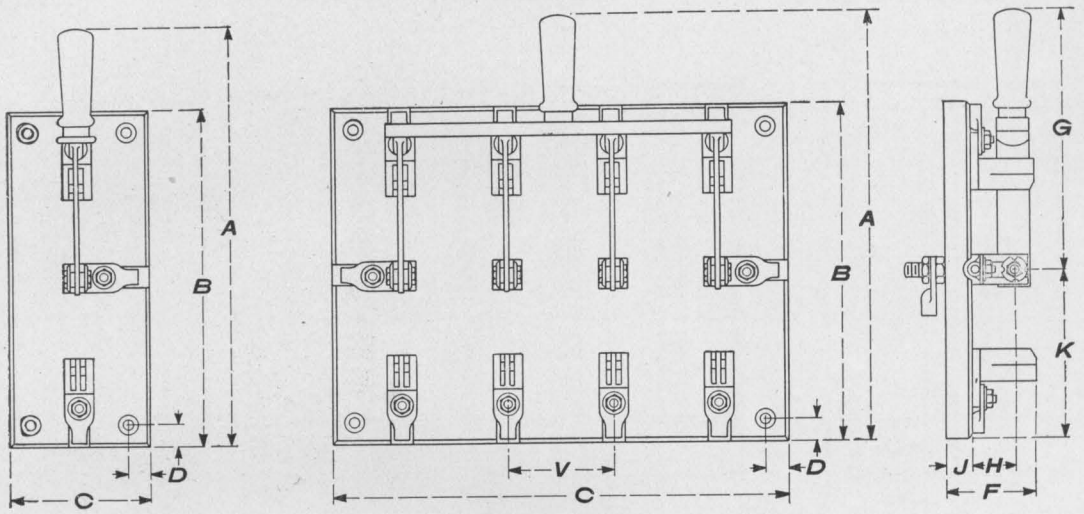
For REFERENCE ONLY.

*Switches of capacities of 100 amp. and above without fuse connections are approved for use on 500 volt alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, Double-Throw, Front Connected on Slate Bases without fuse connections, 250 Volts*

Dimensions



SINGLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41604	7 13/16	6 1/2	2 1/2	7/16	1 9/16	4 9/16	3/4	1/2	3 1/4	
60	41612	10 5/8	9	3	9/16	2 5/32	5 5/8	31/32	3/4	4 1/2	
100	41620	12 5/16	10	4	9/16	2 5/8	7 5/16	1 1/4	3/4	5	
200	41628	15 3/16	14	5	5/8	3 3/16	8 3/16	1 7/16	1	7	
300	41636	17 11/16	17	6 1/4	5/8	3 9/16	9 3/16	1 11/16	1	8 1/2	
400	41644	19 1/2	19	7	11/16	4 3/8	10	2	1 1/4	9 1/2	
600	41652	22 5/16	22	8	1	5 1/4	11 5/16	2 1/2	1 1/4	11	
800	41660	25 9/16	24 1/2	9	1	5 3/4	13 5/16	2 11/16	1 1/2	12 1/4	

DOUBLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41605	7 13/16	6 1/2	4 3/4	7/16	1 9/16	4 11/16	3/4	1/2	3 1/4	2 5/16
60	41613	10 5/8	9	6	9/16	2 5/32	6 5/8	31/32	3/4	4 1/2	2 13/16
100	41621	12 9/16	10	7	9/16	2 5/8	7 9/16	1 1/4	3/4	5	3 1/16
200	41629	15 1/2	14	9 1/2	5/8	3 3/16	8 1/2	1 7/16	1	7	3 3/4
300	41637	18 1/16	17	12	5/8	3 9/16	9 3/16	1 11/16	1	8 1/2	4
400	41645	19 13/16	19	14	11/16	4 3/8	10 5/16	2	1 1/4	9 1/2	4 3/8
600	41653	22 3/4	22	16	1	5 1/4	11 3/4	2 1/8	1 1/4	11	4 7/8
800	41661	26	24 1/2	17 1/2	1	5 3/4	13 3/4	2 11/16	1 1/2	12 1/4	5 3/8

TRIPLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41606	7 13/16	6 1/2	7	7/16	1 9/16	4 11/16	3/4	1/2	3 1/4	2 5/16
60	41614	10 5/8	9	9	9/16	2 5/32	6 5/8	31/32	3/4	4 1/2	2 13/16
100	41622	12 9/16	10	10	9/16	2 5/8	7 9/16	1 1/4	3/4	5	3 1/16
200	41630	15 1/2	14	13 1/2	5/8	3 3/16	8 1/2	1 7/16	1	7	3 3/4
300	41638	18 1/16	17	16	5/8	3 9/16	9 3/16	1 11/16	1	8 1/2	4
400	41646	19 13/16	19	18	11/16	4 3/8	10 5/16	2	1 1/4	9 1/2	4 3/8
600	41654	22 3/4	22	20 3/4	1	5 1/4	11 3/4	2 1/8	1 1/4	11	4 7/8
800	41662	26	24 1/2	23	1	5 3/4	13 3/4	2 11/16	1 1/2	12 1/4	5 3/8

FOUR-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41607	8	6 1/2	9 1/2	7/16	1 9/16	4 3/4	3/4	1/2	3 1/4	2 5/16
60	41615	10 11/16	9	12	9/16	2 5/32	6 3/16	31/32	3/4	4 1/2	2 13/16
100	41623	12 5/8	10	13	9/16	2 5/8	7 5/8	1 1/4	3/4	5	3 1/16
200	41631	15 9/16	14	17	5/8	3 3/16	8 9/16	1 7/16	1	7	3 3/4
300	41639	18 1/4	17	20	5/8	3 9/16	9 1/8	1 11/16	1	8 1/2	4
400	41647	19 7/8	19	22 1/4	11/16	4 3/8	10 3/8	2	1 1/4	9 1/2	4 3/8
600	41655	22 3/4	22	25 1/2	1	5 1/4	11 3/4	2 1/8	1 1/4	11	4 7/8
800	41663	26	24 1/2	28	1	5 3/4	13 3/4	2 11/16	1 1/2	12 1/4	5 3/8

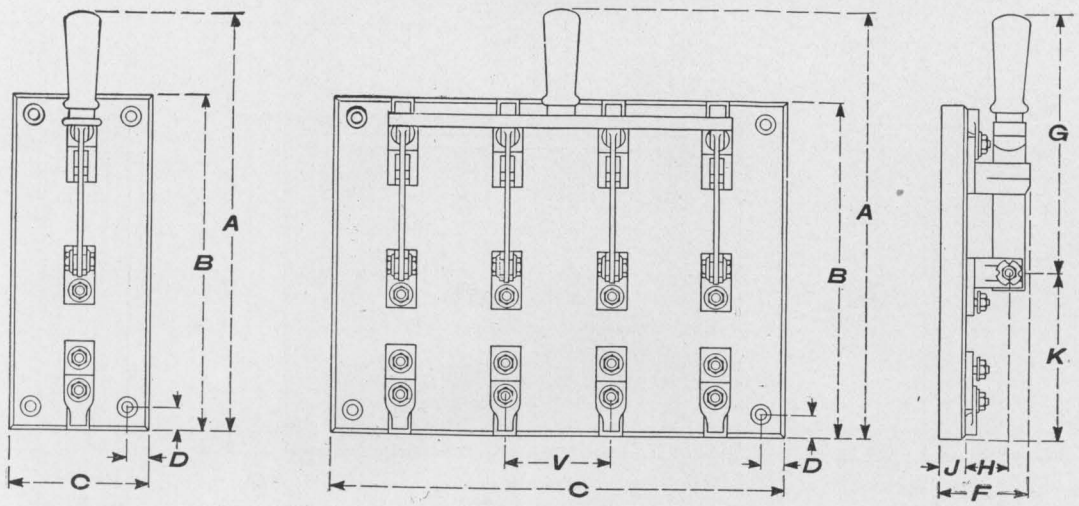
For REFERENCE ONLY.

* Switches of capacities of 100 amperes and above without fuse connections are approved for use on 500 volt alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, Single-Throw, Front Connected on Slate Bases, with Open Link Fuse Connections, 250 Volts

Dimensions



SINGLE-POLE

Ampere	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41672	8 1/32	6 3/4	2 1/2	7/16	1 9/16	4 9/16	3/4	1/2	3 13/32	
60	41680	10 3/32	8 1/2	3	9/16	2 5/32	5 7/8	31/32	3/4	4 9/32	
100	41688	12 9/32	10	4	9/16	2 5/8	7 5/16	1 1/4	3/4	4 31/32	
200	41696	15 15/32	14 1/4	4	5/8	3 3/16	8 5/16	1 7/16	1	7 7/32	
300	41704	18 23/32	18	4 1/2	5/8	3 9/16	9 5/16	1 11/16	1	9 17/32	
400	41712	20 15/16	20 1/2	4 1/2	11/16	4 3/8	10	2	1 1/4	10 15/16	
600	41720	23 27/32	23 1/2	5 1/4	1	5 1/4	11 5/16	2 1/8	1 1/4	12 1/32	
800	41728	27 3/32	26	5 1/2	1	5 3/4	13 5/16	2 11/16	1 1/2	13 25/32	

DOUBLE-POLE

Ampere	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41673	8 5/32	6 3/4	4 3/4	7/16	1 9/16	4 11/16	3/4	1/2	3 13/32	2 5/16
60	41681	10 9/32	8 1/2	6	9/16	2 5/32	6 7/8	31/32	3/4	4 9/32	2 15/16
100	41689	12 13/32	10	7	9/16	2 5/8	7 9/16	1 1/4	3/4	4 31/32	3 7/16
200	41697	15 23/32	14 1/4	8	5/8	3 3/16	8 1/2	1 7/16	1	7 7/32	3 3/4
300	41705	19 3/32	18	8 1/2	5/8	3 9/16	9 9/16	1 11/16	1	9 17/32	4
400	41713	21 1/4	20 1/2	9	11/16	4 3/8	10 5/16	2	1 1/4	10 15/16	4 3/8
600	41721	24 9/32	23 1/2	10	1	5 1/4	11 3/4	2 1/8	1 1/4	12 1/32	4 7/8
800	41729	27 17/32	26	11	1	5 3/4	13 3/4	2 11/16	1 1/2	13 25/32	5 3/8

TRIPLE-POLE

Ampere	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41674	8 5/32	6 3/4	7	7/16	1 9/16	4 11/16	3/8	1/2	3 13/32	2 5/16
60	41682	10 9/32	8 1/2	9	9/16	2 5/16	6 1/8	31/32	3/4	4 9/32	2 15/16
100	41690	12 17/32	10	10	9/16	2 5/8	7 9/16	1 1/4	3/4	4 31/32	3 7/16
200	41698	15 25/32	14 1/4	11 1/2	5/8	3 3/16	8 1/2	1 7/16	1	7 7/32	3 3/4
300	41706	19 3/32	18	12 1/2	5/8	3 9/16	9 9/16	1 11/16	1	9 17/32	4
400	41714	21 1/4	20 1/2	13 1/4	11/16	4 3/8	10 5/16	2	1 1/4	10 15/16	4 3/8
600	41722	24 9/32	23 1/2	15	1	5 1/4	11 3/4	2 1/8	1 1/4	12 1/32	4 7/8
800	41730	27 17/32	26	16 1/2	1	5 3/4	13 3/4	2 11/16	1 1/2	13 25/32	5 3/8

FOUR-POLE

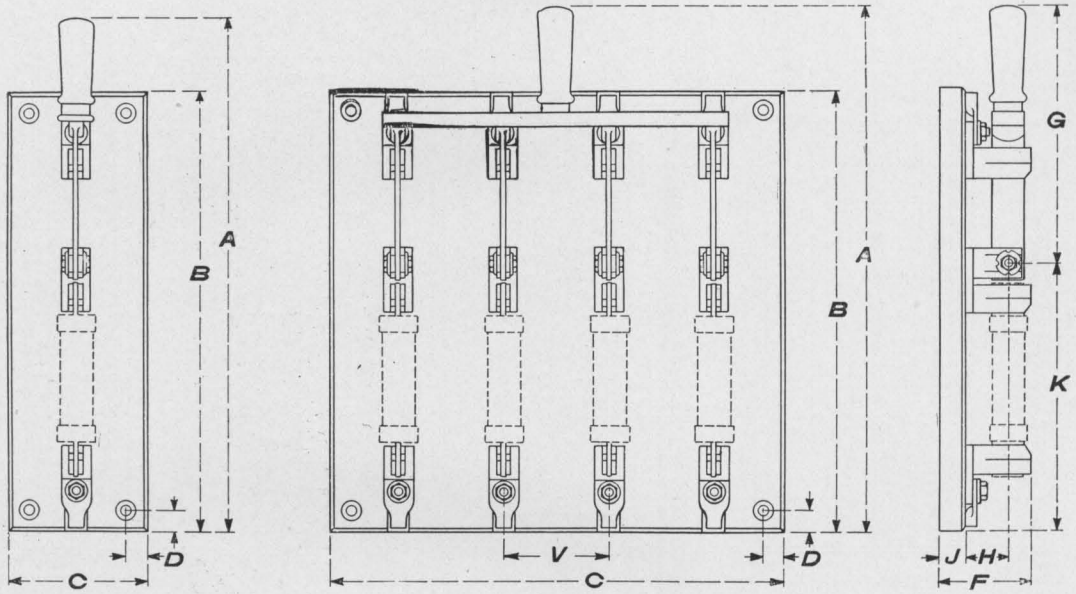
Ampere	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41675	8 7/32	6 3/4	9 1/2	7/16	1 9/16	4 3/4	3/4	1/2	3 13/32	2 5/16
60	41683	10 11/32	8 1/2	12	9/16	2 5/32	6 7/16	31/32	3/4	4 9/32	2 15/16
100	41691	12 13/32	10	13	9/16	2 5/8	7 5/8	1 1/4	3/4	4 31/32	3 7/16
200	41699	15 27/32	14 1/4	15	5/8	3 3/16	8 9/16	1 7/16	1	7 7/32	3 3/4
300	41707	19 9/32	18	16 1/2	5/8	3 9/16	9 5/8	1 11/16	1	9 17/32	4
400	41715	21 5/16	20 1/2	17 3/4	11/16	4 3/8	10 3/8	2	1 1/4	10 15/16	4 3/8
600	41723	24 9/32	23 1/2	20	1	5 1/4	11 3/4	2 1/2	1 1/4	12 1/32	4 7/8
800	41731	27 17/32	26	22	1	5 3/4	13 3/4	2 11/16	1 1/2	13 25/32	5 3/8

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Single-Throw, Front Connected on Slate Bases, with National Electrical Code Standard Enclosed Fuse Connections, 250 Volts

Dimensions



SINGLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41792	8 1/32	6 3/4	2 1/2	7/16	1 9/16	4 1/16	3/4	1/2	3 15/32	
60	41796	10 15/16	9 1/2	3	9/16	2 3/32	5 7/8	31/32	3/4	5 1/16	
100	41800	15 1/2	13 1/4	4	9/16	2 5/8	7 9/16	1 1/4	3/4	8 3/16	
200	41804	19 1/16	18	4	5/8	3 3/16	8 5/16	1 7/16	1	10 7/8	
400	41808	24 3/8	24	4 1/2	11/16	4 3/8	10	2	1 1/4	14 3/8	
600	41812	28 9/16	28 1/4	5 1/4	1	5 1/4	11 5/16	2 1/2	1 1/4	17 1/4	

DOUBLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41793	8 5/32	6 3/4	4 3/4	7/16	1 9/16	4 11/16	3/4	1/2	3 15/32	2 5/16
60	41797	11 1/16	9 1/2	6	9/16	2 3/32	6 1/8	31/32	3/4	5 1/16	2 15/16
100	41801	15 3/4	13 1/4	7	9/16	2 5/8	7 9/16	1 1/4	3/4	8 3/16	3 1/16
200	41805	19 3/8	18	8	5/8	3 3/16	8 1/2	1 7/16	1	10 7/8	3 3/4
400	41809	24 11/16	24	9	11/16	4 3/8	10 5/16	2	1 1/4	14 3/8	4 3/8
600	41813	29	28 1/4	10	1	5 1/4	11 3/4	2 1/2	1 1/4	17 1/4	4 7/8

TRIPLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41794	8 5/32	6 3/4	7	7/16	1 9/16	4 11/16	3/4	1/2	3 15/32	2 5/16
60	41798	11 1/16	9 1/2	9	9/16	2 3/32	6 1/8	31/32	3/4	5 1/16	2 15/16
100	41802	15 3/4	13 1/4	10	9/16	2 5/8	7 9/16	1 1/4	3/4	8 3/16	3 1/16
200	41806	19 3/8	18	11 1/2	5/8	3 3/16	8 1/2	1 7/16	1	10 7/8	3 3/4
400	41810	24 11/16	24	13 1/4	11/16	4 3/8	10 5/16	2	1 1/4	14 3/8	4 3/8
600	41814	29	28 1/4	15	1	5 1/4	11 3/4	2 1/2	1 1/4	17 1/4	4 7/8

FOUR-POLE

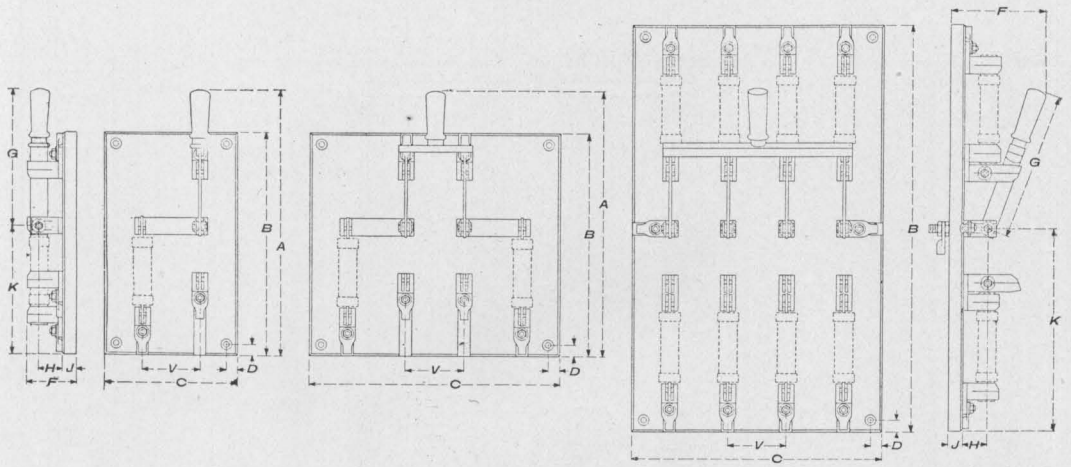
Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41795	8 7/32	6 3/4	9 1/2	7/16	1 9/16	4 3/4	3/4	1/2	3 15/32	2 5/16
60	41799	11 1/4	9 1/2	12	9/16	2 3/32	6 3/16	31/32	3/4	5 1/16	2 15/16
100	41803	15 13/16	13 1/4	13	9/16	2 5/8	7 5/8	1 1/4	3/4	8 3/16	3 1/16
200	41807	19 7/16	18	15	5/8	3 3/16	8 9/16	1 7/16	1	10 7/8	3 3/4
400	41811	24 3/4	24	17 3/4	11/16	4 3/8	10 3/8	2	1 1/4	14 3/8	4 3/8
600	41815	29	28 1/4	20	1	5 1/4	11 3/4	2 1/2	1 1/4	17 1/4	4 7/8

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Double-Throw, Front Connected on Slate Bases, with National Electrical Standard Enclosed Fuse Connections, 250 Volts

Dimensions



SINGLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41748	7 13/16	6 1/2	4 3/4	7/16	1 9/16	4 9/16	3/4	1/2	3 1/4	2 5/16
60	41756	10 3/8	9	6	9/16	2 3/32	5 5/8	31/32	3/4	4 1/2	2 13/16
100	41764	14 9/32	12	7	9/16	2 5/8	7 5/16	1 1/4	3/4	6 31/32	3 1/16
200	41772	17 1/4	16	8	5/8	3 3/16	8 9/16	1 7/16	1	9 1/16	3 3/8
400	41780	21 15/16	21 1/2	9	11/16	4 3/8	10	2	1 1/4	11 13/16	4 3/8
600	41788	25 3/4	25 1/2	10	1	5 1/4	11 5/16	2 1/2	1 1/4	14 7/16	4 5/8

DOUBLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41749	7 15/16	6 1/2	9 1/2	7/16	1 9/16	4 11/16	3/4	1/2	3 1/4	2 5/16
60	41757	10 3/8	9	12	9/16	2 3/32	6 1/8	31/32	3/4	4 1/2	2 13/16
100	41765	14 17/32	12	13	9/16	2 5/8	7 5/16	1 1/4	3/4	6 31/32	3 1/16
200	41773	17 9/16	16	15 1/2	5/8	3 3/16	8 1/2	1 7/16	1	9 1/16	3 3/8
400	41781	22 1/4	21 1/2	17 3/4	11/16	4 3/8	10 5/16	2	1 1/4	11 13/16	4 3/8
600	41789	26 3/16	25 1/2	20	1	5 1/4	11 3/4	2 1/2	1 1/4	14 7/16	4 5/8

TRIPLE-POLE

Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41750		11	7	7/16	3 1/8	4 11/16	3/4	1/2	5 1/2	2 5/16
60	41758		15 1/2	9	9/16	3 7/8	6 1/8	31/32	3/4	7 3/4	2 13/16
100	41766		22	10	9/16	4 11/16	7 5/16	1 1/4	3/4	11	3 1/16
200	41774		28 1/2	13 1/2	5/8	5 1/2	8 1/2	1 7/16	1	14 1/4	3 3/8
400	41782		36 1/2	18	11/16	7 5/8	10 5/16	2	1 1/4	18 1/4	4 3/8
600	41790		43	20 3/4	1	9 1/2	11 3/4	2 1/2	1 1/4	21 1/2	4 5/8

FOUR-POLE

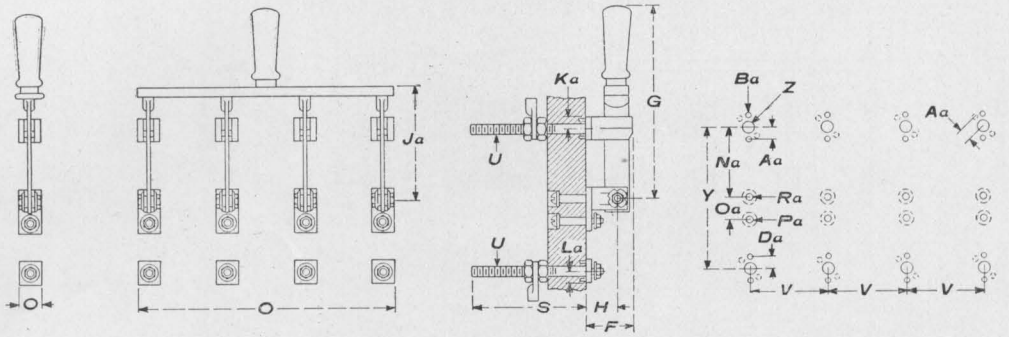
Amp.	Cat. No.	A	B	C	D	F	G	H	J	K	V
30	41751		11	9 1/2	7/16	3 1/8	4 3/4	3/4	1/2	5 1/2	2 5/16
60	41759		15 1/2	12	9/16	3 7/8	6 3/16	31/32	3/4	7 3/4	2 13/16
100	41767		22	13	9/16	4 11/16	7 5/8	1 1/4	3/4	11	3 1/16
200	41775		28 1/2	17	5/8	5 1/2	8 9/16	1 7/16	1	14 1/4	3 3/8
400	41783		36 1/2	22 1/2	11/16	7 5/8	10 5/8	2	1 1/4	18 1/4	4 3/8
600	41791		43	25 1/2	1	9 1/2	11 3/4	2 1/2	1 1/4	21 1/2	4 5/8

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Single-Throw, Back Connected for Mounting on Panels, With Open Link Fuse Connections, 250 Volts

Dimensions



SINGLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	Ja	Ka	La	Na	Oa	Pa Drill	Pa C. B.	Ra Drill	Ra C.B.
30	41926	1 1/16	4 9/16	3/4	1/2	3	5/16—18 thd		4 11/32	11/32						1/4	1/4	2 1/16	17/32	No.17	13/32	No.17	13/32
60	41934	1 13/32	5 7/8	3 1/32	5/8	3	5/16—18 thd		5 1/2	11/32						5/16	5/16	2 1/16	11/16	No. 9	1/16	No. 9	1/16
100	41942	1 7/8	7 1/16	1 1/4	3/4	3	3/8—16 thd		5 1/16	11/32	9/32	No. 39	1/4	9/32		7/16	3/8	2 1/16	7/8	9/32	1/16	9/32	1/16
200	41950	2 3/16	8 3/16	1 7/16	1 1/8	4 1/2	1/2—13 thd		7 5/8	11/32	1/2	No. 31	1/4	1/16		5/8	9/16	3 5/8	1 1/4	11/32	1/16	11/32	1/16
300	41958	2 9/16	9 3/16	1 11/16	1 3/8	4 1/2	5/8—11 thd		8 5/8	11/32	1/2	No. 24	5/16	9/16		3/4	11/16	3 7/8	1 9/16	13/32	1/16	13/32	1/16
400	41966	3 1/8	10	2	1 1/2	4 1/2	3/4—12 thd		10	25/32	9/16	No. 24	5/16	1/2		7/8	3/4	4 3/8	1 7/8	17/32	1 3/16	17/32	1 3/16
600	41974	4	11 5/16	2 1/2	2	4 1/2	1 —12 thd		11 1/16	1 1/16	5/8	No. 24	5/16	13/16		1 1/16	1	4 1/4	2 1/4	17/32	1 3/16	17/32	1 3/16
800	41982	4 1/4	13 1/16	2 11/16	2 1/4	4 1/2	1 1/8—12 thd		12 1/4	1 3/16	3/4	No. 2	3/8	7/8		1 1/4	1 1/8	5 1/8	2 7/16	21/32	1 5/16	21/32	1 5/16

DOUBLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	Ja	Ka	La	Na	Oa	Pa Drill	Pa C. B.	Ra Drill	Ra C.B.
30	41927	1 1/16	4 11/16	3/4	2 1/16	3	5/16—18 thd	2 5/16	4 11/32	11/32					3 1/4	1/4	1/4	2 1/16	17/32	No.17	13/32	No 17	13/32
60	41935	1 13/16	6 1/8	3 1/32	3 1/16	3	5/16—18 thd	2 15/16	5 1/2	11/32					4 1/2	5/16	5/16	2 1/16	11/16	No. 9	1/16	No. 9	1/16
100	41943	1 7/8	7 9/16	1 1/4	3 1/16	3	3/8—16 thd	3 1/16	5 15/16	11/32	9/32	No. 39	1/4	9/32	4 9/16	7/16	3/8	2 1/16	7/8	9/32	1/16	9/32	1/16
200	41951	2 3/16	8 1/2	1 7/16	4 1/8	4 1/2	1/2—13 thd	3 1/4	7 5/8	11/32	1/2	No. 31	1/4	1/16	5 1/2	5/8	9/16	3 5/8	1 1/4	11/32	1/16	11/32	1/16
300	41959	2 9/16	9 1/8	1 11/16	5 1/8	4 1/2	5/8—11 thd	4	8 5/8	11/32	1/2	No. 24	5/16	9/16	6 1/16	3/4	11/16	3 7/8	1 9/16	13/32	1/16	13/32	1/16
400	41967	3 1/8	10 5/16	2	5 1/8	4 1/2	3/4—12 thd	4 3/8	10	25/32	9/16	No. 24	5/16	1/2	6 13/16	7/8	3/4	4 3/8	1 7/8	17/32	1 3/16	17/32	1 3/16
600	41975	4	11 1/4	2 1/2	6 1/8	4 1/2	1 —12 thd	4 7/8	11 1/16	1 1/16	5/8	No. 24	5/16	13/16	7 3/4	1 1/16	1	4 1/4	2 1/4	17/32	1 3/16	17/32	1 3/16
800	41983	4 1/4	13 3/4	2 11/16	7 1/8	4 1/2	1 1/8—12 thd	5 3/8	12 1/4	1 3/16	3/4	No. 2	3/8	7/8	8 3/4	1 1/4	1 1/8	5 1/8	2 7/16	21/32	1 5/16	21/32	1 5/16

TRIPLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	Ja	Ka	La	Na	Oa	Pa Drill	Pa C. B.	Ra Drill	Ra C.B.
30	41928	1 1/16	4 11/16	3/4	5 1/8	3	5/16—18 thd	2 5/16	4 11/32	11/32					3 1/4	1/4	1/4	2 1/16	17/32	No.17	13/32	No.17	13/32
60	41936	1 13/16	6 1/8	3 1/32	6 1/2	3	5/16—18 thd	2 15/16	5 1/2	11/32					4 1/2	5/16	5/16	2 1/16	11/16	No. 9	1/16	No. 9	1/16
100	41944	1 7/8	7 9/16	1 1/4	6 7/8	3	3/8—16 thd	3 1/16	5 15/16	11/32	9/32	No. 39	1/4	9/32	4 9/16	7/16	3/8	2 1/16	7/8	9/32	1/16	9/32	1/16
200	41952	2 3/16	8 1/2	1 7/16	8 5/8	4 1/2	1/2—13 thd	3 1/4	7 5/8	11/32	1/2	No. 31	1/4	1/16	5 1/2	5/8	9/16	3 5/8	1 1/4	11/32	1/16	11/32	1/16
300	41960	2 9/16	9 1/8	1 11/16	9 3/8	4 1/2	5/8—11 thd	4	8 5/8	11/32	1/2	No. 24	5/16	9/16	6 1/16	3/4	11/16	3 7/8	1 9/16	13/32	1/16	13/32	1/16
400	41968	3 1/8	10 5/16	2	10 1/2	4 1/2	3/4—12 thd	4 3/8	10	25/32	9/16	No. 24	5/16	1/2	6 13/16	7/8	3/4	4 3/8	1 7/8	17/32	1 3/16	17/32	1 3/16
600	41976	4	11 1/4	2 1/2	11 1/2	4 1/2	1 —12 thd	4 7/8	11 1/16	1 1/16	5/8	No. 24	5/16	13/16	7 3/4	1 1/16	1	4 1/4	2 1/4	17/32	1 3/16	17/32	1 3/16
800	41984	4 1/4	13 3/4	2 11/16	13	4 1/2	1 1/8—12 thd	5 3/8	12 1/4	1 3/16	3/4	No. 2	3/8	7/8	8 3/4	1 1/4	1 1/8	5 1/8	2 7/16	21/32	1 5/16	21/32	1 5/16

FOUR-POLE

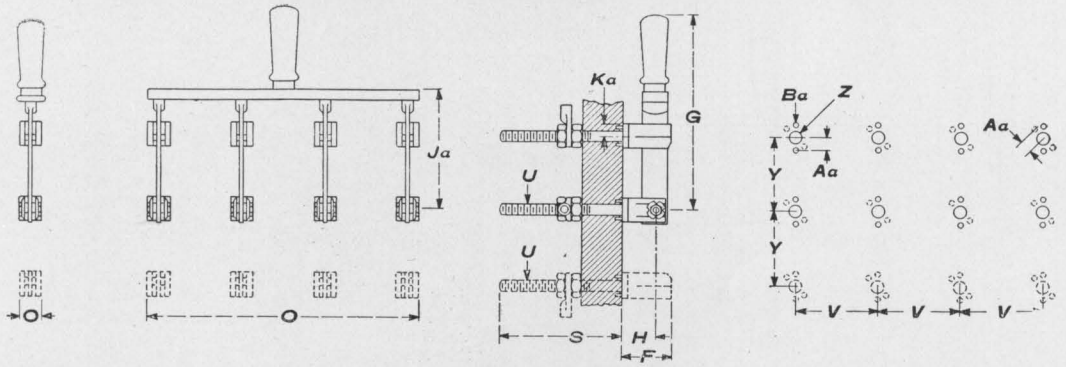
Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	Ja	Ka	La	Na	Oa	Pa Drill	Pa C. B.	Ra Drill	Ra C.B.
30	41929	1 1/16	4 1/2	3/4	7 7/16	3	5/16—18 thd	2 5/16	4 11/32	11/32					3 5/16	1/4	1/4	2 1/16	17/32	No.17	13/32	No.17	13/32
60	41937	1 13/16	6 3/16	3 1/32	9 7/16	3	5/16—18 thd	2 15/16	5 1/2	11/32					4 3/16	5/16	5/16	2 1/16	11/16	No. 9	1/16	No. 9	1/16
100	41945	1 7/8	7 7/8	1 1/4	9 11/16	3	3/8—16 thd	3 1/16	5 15/16	11/32	9/32	No. 39	1/4	9/32	4 5/8	7/16	3/8	2 1/16	7/8	9/32	1/16	9/32	1/16
200	41953	2 3/16	8 9/16	1 7/16	12 3/8	4 1/2	1/2—13 thd	3 1/4	7 5/8	11/32	1/2	No. 31	1/4	1/16	5 5/16	5/8	9/16	3 5/8	1 1/4	11/32	1/16	11/32	1/16
300	41961	2 9/16	9 1/16	1 11/16	13 3/8	4 1/2	5/8—11 thd	4	8 5/8	11/32	1/2	No. 24	5/16	9/16	6 1/8	3/4	11/16	3 7/8	1 9/16	13/32	1/16	13/32	1/16
400	41969	3 1/8	10 3/8	2	14 1/4	4 1/2	3/4—12 thd	4 3/8	10	25/32	9/16	No. 24	5/16	1/2	6 7/8	7/8	3/4	4 3/8	1 7/8	17/32	1 3/16	17/32	1 3/16
600	41977	4	11 1/8	2 1/2	16 5/8	4 1/2	1 —12 thd	4 7/8	11 1/16	1 1/16	5/8	No. 24	5/16	13/16	7 3/4	1 1/16	1	4 1/4	2 1/4	17/32	1 3/16	17/32	1 3/16
800	41985	4 1/4	13 3/4	2 11/16	18 3/8	4 1/2	1 1/8—12 thd	5 3/8	12 1/4	1 3/16	3/4	No. 2	3/8	7/8	8 3/4	1 1/4	1 1/8	5 1/8	2 7/16	21/32	1 5/16	21/32	1 5/16

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Single and Double-Throw,* Back Connected for Mounting on Panels, without Fuse Connections. 250 Volts, 30 to 1200 Amp. Capacity Inclusive

Dimensions



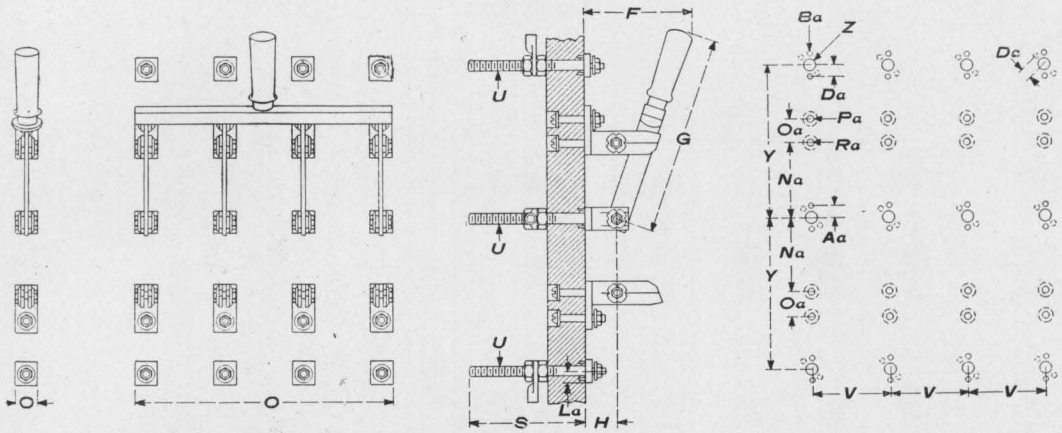
Amp.	Single-Throw Cat. No.	Double-Throw Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba	Ja	Ka
								SINGLE-POLE							
30	41816	41820	1 1/16	4 9/16	3/4	1/2	3	5/16—18 thd		2 1/16	11/32				
60	41824	41828	1 13/32	5 7/16	31/32	5/8	3	5/16—18 thd		2 11/16	11/32				1/4
100	41832	41836	1 7/8	7 5/16	1 1/4	3/4	3	3/8—16 thd		2 15/16	13/32	9/32	No. 39 drill 1/4″ deep		5/16
200	41840	41844	2 3/16	8 5/16	1 7/16	1 1/8	4 1/2	1/2—13 thd		3 3/8	17/32	1/2	No. 31 drill 1/4″ deep		7/16
300	41848	41852	2 1/16	9 1/16	1 11/16	1 3/8	4 1/2	5/8—11 thd		3 7/8	21/32	1/2	No. 24 drill 5/16″ deep		3/4
400	41856	41860	3 3/8	10	2	1 5/8	4 1/2	3/4—12 thd		4 3/8	25/32	9/16	No. 24 drill 5/16″ deep		7/8
600	41864	41868	4	11 5/16	2 1/4	1 7/8	4 1/2	1 —12 thd		4 7/8	1 1/16	3/4	No. 24 drill 5/16″ deep		1 1/16
800	41872	41876	4 1/4	13 5/16	2 11/16	1 1/2	4 1/2	1 1/4—12 thd		5 3/8	1 5/16	7/8	No. 2 drill 3/8″ deep		1 1/4
1000	41880	41884	5 1/4	14	3 5/16	1 3/4	4 1/2	1 1/2—12 thd		5 7/8	1 9/32	1 1/16	No. 2 drill 3/8″ deep		1 1/2
1200	41888	41892	6 1/8	15 1/8	4	1 3/4	5 1/2	1 1/4—12 thd		6 3/4	1 9/32	1 1/2	No. 2 drill 3/8″ deep		1 3/4
								DOUBLE-POLE							
30	41817	41821	1 1/16	4 11/16	3/4	2 13/16	3	5/16—18 thd	2 5/16	2 1/16	11/32			3 1/4	1/4
60	41825	41829	1 13/32	6 1/8	31/32	3 9/16	3	5/16—18 thd	2 15/16	2 11/16	11/32			4 1/8	5/16
100	41833	41837	1 7/8	7 1/16	1 1/4	3 13/16	3	3/8—16 thd	3 1/16	2 15/16	13/32	9/32	No. 39 drill 1/4″ deep	4 9/16	7/16
200	41841	41845	2 3/16	8 1/2	1 7/16	4 5/8	4 1/2	1/2—13 thd	3 3/4	3 3/8	17/32	1/2	No. 31 drill 1/4″ deep	5 1/2	5/8
300	41849	41853	2 9/16	9 1/16	1 11/16	5 1/2	4 1/2	5/8—11 thd	4	3 7/8	21/32	1/2	No. 24 drill 5/16″ deep	6 1/16	3/4
400	41857	41861	3 3/8	10 5/16	2	5 1/2	4 1/2	3/4—12 thd	4 3/8	4 3/8	25/32	9/16	No. 24 drill 5/16″ deep	6 13/16	7/8
600	41865	41869	4	11 3/4	2 1/4	6 1/2	4 1/2	1 —12 thd	4 7/8	4 7/8	1 1/16	3/4	No. 24 drill 5/16″ deep	7 3/4	1 1/16
800	41873	41877	4 1/4	13 3/4	2 11/16	6 7/8	4 1/2	1 1/4—12 thd	5 3/8	5 3/8	1 5/16	7/8	No. 2 drill 3/8″ deep	8 3/4	1 1/4
1000	41881	41885	5 1/4	14 3/8	3 5/16	7 1/2	4 1/2	1 1/2—12 thd	5 7/8	5 7/8	1 9/32	1 1/16	No. 2 drill 3/8″ deep	9 3/8	1 1/2
1200	41880	41893	6 1/8	15 1/8	4	7	5 1/2	1 1/4—12 thd	5 1/4	6 3/4	1 9/32	1 1/2	No. 2 drill 3/8″ deep	10 3/8	1 3/4
								TRIPLE-POLE							
30	41818	41822	1 1/16	4 11/16	3/4	5 1/8	3	5/16—18 thd	2 5/16	2 1/16	11/32			3 1/4	1/4
60	41826	41830	1 13/32	6 1/8	31/32	6 1/2	3	5/16—18 thd	2 15/16	2 11/16	11/32			4 1/8	5/16
100	41834	41838	1 7/8	7 1/16	1 1/4	6 7/8	3	3/8—16 thd	3 1/16	2 15/16	13/32	9/32	No. 39 drill 1/4″ deep	4 9/16	7/16
200	41842	41846	2 3/16	8 1/2	1 7/16	8 5/8	4 1/2	1/2—13 thd	3 3/4	3 3/8	17/32	1/2	No. 31 drill 1/4″ deep	5 1/2	5/8
300	41850	41854	2 9/16	9 1/16	1 11/16	9 1/2	4 1/2	5/8—11 thd	4	3 7/8	21/32	1/2	No 24 drill 5/16″ deep	6 1/16	3/4
400	41858	41862	3 3/8	10 5/16	2	9 5/8	4 1/2	3/4—12 thd	4 3/8	4 3/8	25/32	9/16	No. 24 drill 5/16″ deep	6 13/16	7/8
600	41866	41870	4	11 3/4	2 1/4	11 3/8	4 1/2	1 —12 thd	4 7/8	4 7/8	1 1/16	3/4	No. 24 drill 5/16″ deep	7 3/4	1 1/16
800	41874	41878	4 1/4	13 3/4	2 11/16	12 1/4	4 1/2	1 1/4—12 thd	5 3/8	5 3/8	1 5/16	7/8	No. 2 drill 3/8″ deep	8 3/4	1 1/4
1000	41882	41886	5 1/4	14 3/8	3 5/16	13 1/4	4 1/2	1 1/2—12 thd	5 7/8	5 7/8	1 9/32	1 1/16	No. 2 drill 3/8″ deep	9 3/8	1 1/2
1200	41890	41894	6 1/8	15 1/8	4	12 1/4	5 1/2	1 1/4—12 thd	5 1/4	6 3/4	1 9/32	1 1/2	No. 2 drill 3/8″ deep	10 3/8	1 3/4
								FOUR-POLE							
30	41819	41823	1 1/16	4 3/4	3/4	7 7/16	3	5/16—18 thd	2 5/16	2 1/16	11/32			3 5/16	1/4
60	41827	41831	1 13/32	6 9/16	31/32	9 7/16	3	5/16—18 thd	2 15/16	2 11/16	11/32			4 3/16	5/16
100	41835	41839	1 7/8	7 3/8	1 1/4	9 1/16	3	3/8—16 thd	3 1/16	2 15/16	13/32	9/32	No. 39 drill 1/4″ deep	4 5/8	7/16
200	41843	41847	2 3/16	8 9/16	1 7/16	12 3/8	4 1/2	1/2—13 thd	3 3/4	3 3/8	17/32	1/2	No. 31 drill 1/4″ deep	5 1/16	5/8
300	41851	41855	2 9/16	9 1/16	1 11/16	13 3/8	4 1/2	5/8—11 thd	4	3 7/8	21/32	1/2	No 24 drill 5/16″ deep	6 1/8	3/4
400	41859	41863	3 3/8	10 3/4	2	14 1/4	4 1/2	3/4—12 thd	4 3/8	4 3/8	25/32	9/16	No. 24 drill 5/16″ deep	6 15/16	7/8
600	41867	41871	4	11 3/4	2 1/4	16	4 1/2	1 —12 thd	4 7/8	4 7/8	1 1/16	3/4	No. 24 drill 5/16″ deep	7 3/4	1 1/16
800	41875	41879	4 1/4	13 3/4	2 11/16	17 5/8	4 1/2	1 1/4—12 thd	5 3/8	5 3/8	1 5/16	7/8	No. 2 drill 3/8″ deep	8 3/4	1 1/4
1000	41883	41887	5 1/4	14 3/8	3 5/16	19	4 1/2	1 1/2—12 thd	5 7/8	5 7/8	1 9/32	1 1/16	No. 2 drill 3/8″ deep	9 3/8	1 1/2
1200	41891	41895	6 1/8	15 1/8	4	17 1/2	5 1/2	1 1/4—12 thd	5 1/4	6 3/4	1 9/32	1 1/2	No. 2 drill 3/8″ deep	10 3/8	1 3/4

For REFERENCE ONLY.
100 amp. and above are approved for use on 500 volt alternating current circuits.

LEVER SWITCHES

Type L, Form D-12, Double-Throw, Back Connected for Mounting on Panels, Open Link Fuse Connections, 250 Volts.

Dimensions



SINGLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	41930	$2\frac{5}{8}$	$4\frac{9}{16}$	$\frac{3}{4}$	$\frac{1}{2}$	3	$\frac{5}{16}$—18 thd		$4\frac{11}{32}$	$\frac{11}{32}$					$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{17}{32}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	41938	$3\frac{1}{8}$	$5\frac{5}{8}$	$\frac{31}{32}$	$\frac{5}{8}$	3	$\frac{5}{16}$—18 thd		$5\frac{1}{4}$	$\frac{11}{32}$					$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{11}{16}$	No. 9	$\frac{7}{16}$	No. 9	$\frac{7}{16}$
100	41946	$3\frac{15}{16}$	$7\frac{5}{16}$	$1\frac{1}{4}$	$\frac{3}{4}$	3	$\frac{3}{8}$—16 thd		$5\frac{15}{16}$	$\frac{13}{32}$	$\frac{9}{32}$	No. 39	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{3}{8}$	$2\frac{15}{16}$	$\frac{7}{8}$	$\frac{9}{32}$	$\frac{7}{16}$	$\frac{9}{32}$	$\frac{7}{16}$
200	41954	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{1}{2}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd		$7\frac{5}{8}$	$\frac{17}{32}$	$\frac{1}{2}$	No. 31	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{9}{16}$	$3\frac{5}{8}$	$1\frac{1}{4}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
300	41962	$5\frac{1}{2}$	$9\frac{3}{16}$	$1\frac{11}{16}$	$1\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{8}$—11 thd		$8\frac{5}{16}$	$\frac{21}{32}$	$\frac{1}{2}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$3\frac{7}{8}$	$1\frac{1}{16}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
400	41970	$6\frac{1}{8}$	10	2	$1\frac{1}{2}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		10	$\frac{25}{32}$	$\frac{9}{16}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$4\frac{3}{8}$	$1\frac{7}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
600	41978	$8\frac{1}{4}$	$11\frac{5}{16}$	$2\frac{1}{4}$	2	$4\frac{1}{2}$	1 —12 thd		$11\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$\frac{13}{16}$	1	$4\frac{3}{4}$	$2\frac{1}{4}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
800	41986	$8\frac{1}{4}$	$13\frac{5}{16}$	$2\frac{11}{16}$	$2\frac{1}{4}$	$4\frac{1}{2}$	$1\frac{1}{8}$—12 thd		$12\frac{1}{4}$	$1\frac{3}{16}$	$\frac{7}{8}$	No. 2	$\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$5\frac{3}{8}$	$2\frac{7}{16}$	$\frac{21}{32}$	$1\frac{5}{16}$	$\frac{17}{32}$	$1\frac{5}{16}$

DOUBLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	41931	$2\frac{5}{8}$	$4\frac{11}{16}$	$\frac{3}{4}$	$2\frac{13}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{11}{32}$	$\frac{11}{32}$					$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{17}{32}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	41939	$3\frac{1}{8}$	$6\frac{1}{8}$	$\frac{31}{32}$	$3\frac{9}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{1}{4}$	$\frac{11}{32}$					$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{11}{16}$	No. 9	$\frac{7}{16}$	No. 9	$\frac{7}{16}$
100	41947	$3\frac{15}{16}$	$7\frac{9}{16}$	$1\frac{1}{4}$	$3\frac{13}{16}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$5\frac{15}{16}$	$\frac{13}{32}$	$\frac{9}{32}$	No. 39	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{3}{8}$	$2\frac{15}{16}$	$\frac{7}{8}$	$\frac{9}{32}$	$\frac{7}{16}$	$\frac{9}{32}$	$\frac{7}{16}$
200	41955	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$4\frac{1}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd	$3\frac{3}{16}$	$7\frac{5}{8}$	$\frac{17}{32}$	$\frac{1}{2}$	No. 31	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{9}{16}$	$3\frac{5}{8}$	$1\frac{1}{4}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
300	41963	$5\frac{1}{2}$	$9\frac{3}{16}$	$1\frac{11}{16}$	$5\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{8}$—11 thd	4	$8\frac{5}{16}$	$\frac{21}{32}$	$\frac{1}{2}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$3\frac{7}{8}$	$1\frac{1}{16}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
400	41971	$6\frac{1}{8}$	$10\frac{5}{16}$	2	$5\frac{1}{2}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	10	$\frac{25}{32}$	$\frac{9}{16}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$4\frac{3}{8}$	$1\frac{7}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
600	41979	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{4}$	$6\frac{7}{8}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$11\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$\frac{13}{16}$	1	$4\frac{3}{4}$	$2\frac{1}{4}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
800	41987	$8\frac{1}{4}$	$13\frac{3}{4}$	$2\frac{11}{16}$	$7\frac{3}{8}$	$4\frac{1}{2}$	$1\frac{1}{8}$—12 thd	$5\frac{3}{8}$	$12\frac{1}{4}$	$1\frac{3}{16}$	$\frac{7}{8}$	No. 2	$\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$5\frac{3}{8}$	$2\frac{7}{16}$	$\frac{21}{32}$	$1\frac{5}{16}$	$\frac{17}{32}$	$1\frac{5}{16}$

TRIPLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	41932	$2\frac{5}{8}$	$4\frac{11}{16}$	$\frac{3}{4}$	$5\frac{1}{4}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{11}{32}$	$\frac{11}{32}$					$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{17}{32}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	41940	$3\frac{1}{8}$	$6\frac{1}{8}$	$\frac{31}{32}$	$6\frac{9}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{1}{4}$	$\frac{11}{32}$					$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{11}{16}$	No. 9	$\frac{7}{16}$	No. 9	$\frac{7}{16}$
100	41948	$3\frac{15}{16}$	$7\frac{9}{16}$	$1\frac{1}{4}$	$6\frac{7}{8}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$5\frac{15}{16}$	$\frac{13}{32}$	$\frac{9}{32}$	No 39	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{3}{8}$	$2\frac{15}{16}$	$\frac{7}{8}$	$\frac{9}{32}$	$\frac{7}{16}$	$\frac{9}{32}$	$\frac{7}{16}$
200	41956	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$8\frac{1}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd	$3\frac{3}{16}$	$7\frac{5}{8}$	$\frac{17}{32}$	$\frac{1}{2}$	No. 31	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{9}{16}$	$3\frac{5}{8}$	$1\frac{1}{4}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
300	41964	$5\frac{1}{2}$	$9\frac{9}{16}$	$1\frac{11}{16}$	$9\frac{3}{8}$	$4\frac{1}{2}$	$\frac{5}{8}$—11 thd	4	$8\frac{5}{16}$	$\frac{21}{32}$	$\frac{1}{2}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$3\frac{7}{8}$	$1\frac{1}{16}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
400	41972	$6\frac{1}{8}$	$10\frac{5}{16}$	2	$10\frac{1}{4}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	10	$\frac{25}{32}$	$\frac{9}{16}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$4\frac{3}{8}$	$1\frac{7}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
600	41980	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{4}$	$11\frac{1}{4}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$11\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$\frac{13}{16}$	1	$4\frac{3}{4}$	$2\frac{1}{4}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
800	41988	$8\frac{1}{4}$	$13\frac{3}{4}$	$2\frac{11}{16}$	13	$4\frac{1}{2}$	$1\frac{1}{8}$—12 thd	$5\frac{3}{8}$	$12\frac{1}{4}$	$1\frac{3}{16}$	$\frac{7}{8}$	No. 2	$\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$5\frac{3}{8}$	$2\frac{7}{16}$	$\frac{21}{32}$	$1\frac{5}{16}$	$\frac{17}{32}$	$1\frac{5}{16}$

FOUR-POLE

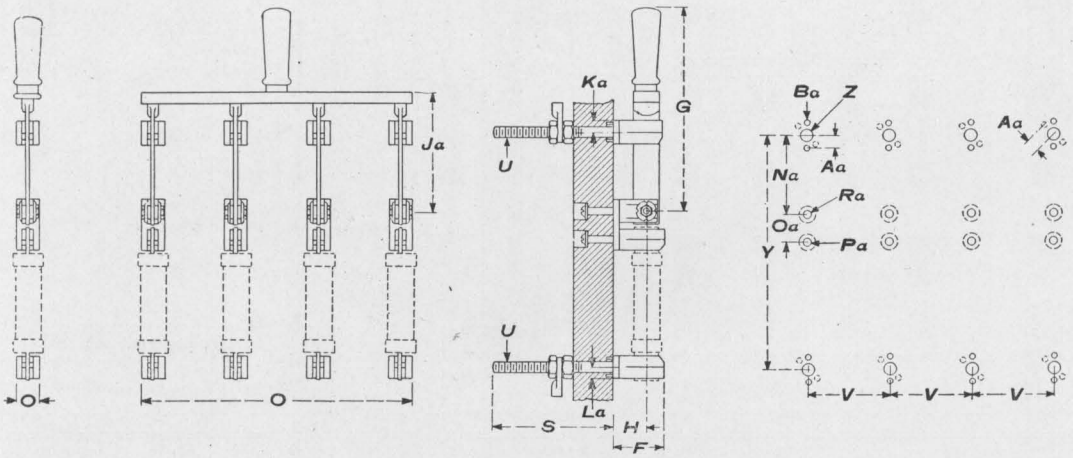
Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Da	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	41933	$2\frac{5}{8}$	$4\frac{3}{4}$	$\frac{3}{4}$	$7\frac{7}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{11}{32}$	$\frac{11}{32}$					$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{17}{32}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	41941	$3\frac{1}{8}$	$6\frac{3}{16}$	$\frac{31}{32}$	$9\frac{1}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{1}{4}$	$\frac{11}{32}$					$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{11}{16}$	No. 9	$\frac{7}{16}$	No. 9	$\frac{7}{16}$
100	41949	$3\frac{15}{16}$	$7\frac{7}{8}$	$1\frac{1}{4}$	$9\frac{15}{16}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$5\frac{15}{16}$	$\frac{13}{32}$	$\frac{9}{32}$	No. 39	$\frac{1}{4}$	$\frac{9}{32}$	$\frac{3}{8}$	$2\frac{15}{16}$	$\frac{7}{8}$	$\frac{9}{32}$	$\frac{7}{16}$	$\frac{9}{32}$	$\frac{7}{16}$
200	41957	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$12\frac{3}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd	$3\frac{3}{16}$	$7\frac{5}{8}$	$\frac{17}{32}$	$\frac{1}{2}$	No. 31	$\frac{1}{4}$	$\frac{7}{16}$	$\frac{9}{16}$	$3\frac{5}{8}$	$1\frac{1}{4}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
300	41965	$5\frac{1}{2}$	$9\frac{9}{16}$	$1\frac{11}{16}$	$13\frac{1}{8}$	$4\frac{1}{2}$	$\frac{5}{8}$—11 thd	4	$8\frac{5}{16}$	$\frac{21}{32}$	$\frac{1}{2}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{11}{16}$	$3\frac{7}{8}$	$1\frac{1}{16}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
400	41973	$6\frac{1}{8}$	$10\frac{3}{8}$	2	$14\frac{5}{8}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	10	$\frac{25}{32}$	$\frac{9}{16}$	No. 24	$\frac{5}{16}$	$\frac{9}{16}$	$\frac{3}{4}$	$4\frac{3}{8}$	$1\frac{7}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
600	41981	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{4}$	$16\frac{5}{8}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$11\frac{1}{16}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$\frac{13}{16}$	1	$4\frac{3}{4}$	$2\frac{1}{4}$	$\frac{17}{32}$	$1\frac{3}{16}$	$\frac{17}{32}$	$1\frac{3}{16}$
800	41989	$8\frac{1}{4}$	$13\frac{3}{4}$	$2\frac{11}{16}$	$18\frac{3}{8}$	$4\frac{1}{2}$	$1\frac{1}{8}$—12 thd	$5\frac{3}{8}$	$12\frac{1}{4}$	$1\frac{3}{16}$	$\frac{7}{8}$	No. 2	$\frac{3}{8}$	$\frac{7}{8}$	$1\frac{1}{8}$	$5\frac{3}{8}$	$2\frac{7}{16}$	$\frac{21}{32}$	$1\frac{5}{16}$	$\frac{17}{32}$	$1\frac{5}{16}$

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Single-Throw, Back Connected for Mounting on Panels, with National Electrical Code Standard Enclosed Fuse Connections. 250 Volts

Dimensions



SINGLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	42046	$1\frac{1}{16}$	$4\frac{9}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	3	$\frac{5}{16}$—18 thd		$4\frac{5}{16}$	$\frac{11}{32}$					$\frac{1}{4}$	$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{3}{4}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	42050	$1\frac{13}{32}$	$5\frac{7}{8}$	$\frac{21}{32}$	$\frac{7}{8}$	3	$\frac{5}{16}$—18 thd		$5\frac{5}{16}$	$\frac{11}{32}$					$\frac{5}{16}$	$\frac{5}{16}$	$2\frac{1}{16}$	$\frac{1}{4}$	No. 17	$\frac{13}{32}$	No. 9	$\frac{7}{16}$
100	42054	$1\frac{1}{2}$	$7\frac{9}{16}$	$1\frac{1}{2}$	$\frac{3}{4}$	3	$\frac{3}{8}$—16 thd		9	$\frac{13}{32}$	$\frac{9}{32}$	No. 39	$\frac{1}{4}$		$\frac{7}{16}$	$\frac{7}{16}$	$2\frac{1}{16}$	$1\frac{3}{16}$	$\frac{9}{32}$	$\frac{9}{16}$	$\frac{9}{32}$	$\frac{9}{16}$
200	42058	$2\frac{3}{16}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{1}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd		11	$\frac{17}{32}$	$\frac{1}{2}$	No. 31	$\frac{1}{4}$		$\frac{5}{8}$	$\frac{5}{8}$	$3\frac{1}{8}$	$1\frac{5}{8}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
400	42062	$3\frac{1}{8}$	10	2	$1\frac{1}{2}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		$13\frac{1}{2}$	$\frac{25}{32}$	$\frac{9}{16}$	No. 24	$\frac{5}{16}$		$\frac{7}{8}$	$\frac{7}{8}$	$4\frac{1}{8}$	$2\frac{3}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
600	42066	4	$11\frac{5}{16}$	$2\frac{1}{2}$	2	$4\frac{1}{2}$	1 —12 thd		$15\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$		$1\frac{1}{16}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{7}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$

DOUBLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	42047	$1\frac{1}{16}$	$4\frac{11}{16}$	$\frac{3}{4}$	$2\frac{15}{16}$	3	$\frac{5}{16}$—18 thd		$2\frac{5}{16}$	$4\frac{5}{16}$	$\frac{11}{32}$			$3\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{3}{4}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	42051	$1\frac{13}{32}$	$6\frac{1}{4}$	$\frac{21}{32}$	$3\frac{1}{16}$	3	$\frac{5}{16}$—18 thd		$2\frac{15}{16}$	$5\frac{15}{16}$	$\frac{11}{32}$			$4\frac{1}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	$2\frac{1}{16}$	$\frac{1}{4}$	No. 17	$\frac{13}{32}$	No. 9	$\frac{7}{16}$
100	42055	$1\frac{1}{2}$	$7\frac{9}{16}$	$1\frac{1}{2}$	$3\frac{1}{16}$	3	$\frac{3}{8}$—16 thd		$3\frac{1}{16}$	9	$\frac{13}{32}$	No. 39	$\frac{1}{4}$	$4\frac{9}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$2\frac{1}{16}$	$1\frac{3}{16}$	$\frac{9}{32}$	$\frac{9}{16}$	$\frac{9}{32}$	$\frac{9}{16}$
200	42059	$2\frac{3}{16}$	$8\frac{3}{4}$	$1\frac{7}{16}$	$4\frac{1}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd		$3\frac{1}{2}$	11	$\frac{17}{32}$	No. 31	$\frac{1}{4}$	$5\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$3\frac{1}{8}$	$1\frac{5}{8}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
400	42063	$3\frac{1}{8}$	$10\frac{5}{16}$	2	$5\frac{7}{8}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		$4\frac{3}{8}$	$13\frac{1}{2}$	$\frac{25}{32}$	No. 24	$\frac{5}{16}$	$6\frac{13}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$4\frac{1}{8}$	$2\frac{3}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
600	42067	4	$11\frac{1}{4}$	$2\frac{1}{2}$	$6\frac{7}{8}$	$4\frac{1}{2}$	1 —12 thd		$4\frac{7}{8}$	$15\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$7\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{7}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$

TRIPLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	42048	$1\frac{1}{16}$	$4\frac{11}{16}$	$\frac{3}{4}$	$5\frac{1}{4}$	3	$\frac{5}{16}$—18 thd		$2\frac{5}{16}$	$4\frac{5}{16}$	$\frac{11}{32}$			$3\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{3}{4}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	42052	$1\frac{13}{32}$	$6\frac{1}{4}$	$\frac{21}{32}$	$6\frac{3}{4}$	3	$\frac{5}{16}$—18 thd		$2\frac{15}{16}$	$5\frac{15}{16}$	$\frac{11}{32}$			$4\frac{1}{8}$	$\frac{5}{16}$	$\frac{5}{16}$	$2\frac{1}{16}$	$\frac{1}{4}$	No. 17	$\frac{13}{32}$	No. 9	$\frac{7}{16}$
100	42056	$1\frac{1}{2}$	$7\frac{9}{16}$	$1\frac{1}{2}$	$6\frac{7}{8}$	3	$\frac{3}{8}$—16 thd		$3\frac{1}{16}$	9	$\frac{13}{32}$	No. 39	$\frac{1}{4}$	$4\frac{9}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$2\frac{1}{16}$	$1\frac{3}{16}$	$\frac{9}{32}$	$\frac{9}{16}$	$\frac{9}{32}$	$\frac{9}{16}$
200	42060	$2\frac{3}{16}$	$8\frac{3}{4}$	$1\frac{7}{16}$	$8\frac{5}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd		$3\frac{1}{2}$	11	$\frac{17}{32}$	No. 31	$\frac{1}{4}$	$5\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$3\frac{1}{8}$	$1\frac{5}{8}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
400	42064	$3\frac{1}{8}$	$10\frac{5}{16}$	2	$10\frac{1}{4}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		$4\frac{3}{8}$	$13\frac{1}{2}$	$\frac{25}{32}$	No. 24	$\frac{5}{16}$	$6\frac{13}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$4\frac{1}{8}$	$2\frac{3}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
600	42068	4	$11\frac{1}{4}$	$2\frac{1}{2}$	$11\frac{1}{4}$	$4\frac{1}{2}$	1 —12 thd		$4\frac{7}{8}$	$15\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$7\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{7}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$

FOUR-POLE

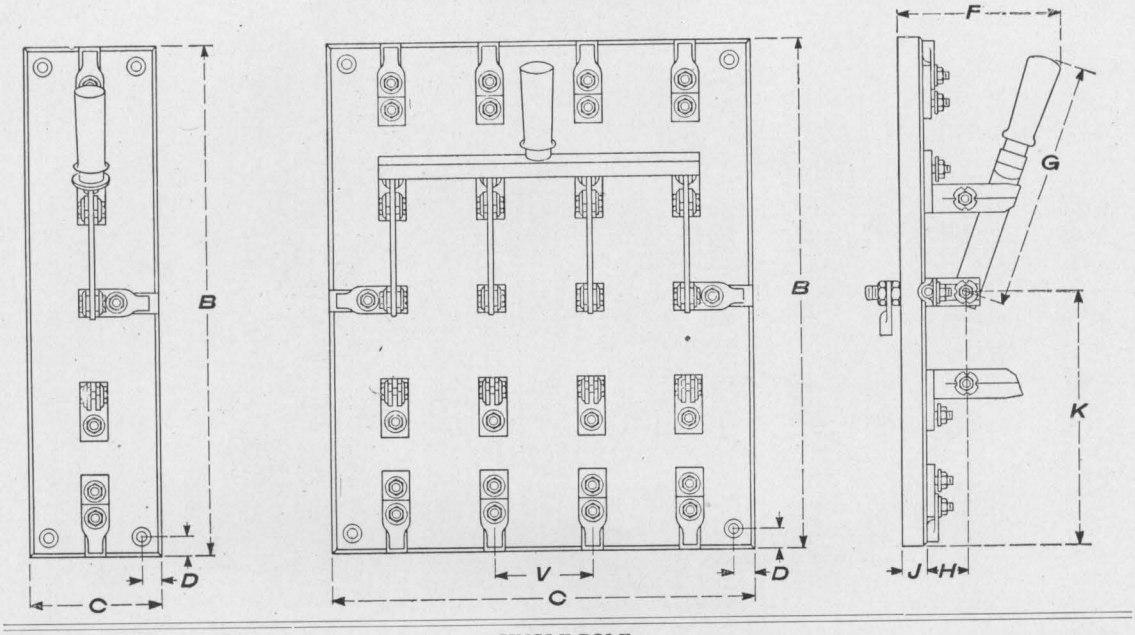
Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka	La	Na	Oa	Pa Drill	Pa C.B.	Ra Drill	Ra C.B.
30	42049	$1\frac{1}{16}$	$4\frac{3}{4}$	$\frac{3}{4}$	$7\frac{9}{16}$	3	$\frac{5}{16}$—18 thd		$2\frac{5}{16}$	$4\frac{5}{16}$	$\frac{11}{32}$			$3\frac{5}{16}$	$\frac{1}{4}$	$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{3}{4}$	No. 17	$\frac{13}{32}$	No. 17	$\frac{13}{32}$
60	42053	$1\frac{13}{32}$	$6\frac{3}{8}$	$\frac{21}{32}$	$9\frac{11}{16}$	3	$\frac{5}{16}$—18 thd		$2\frac{15}{16}$	$5\frac{15}{16}$	$\frac{11}{32}$			$4\frac{3}{16}$	$\frac{5}{16}$	$\frac{5}{16}$	$2\frac{1}{16}$	$\frac{1}{4}$	No. 17	$\frac{13}{32}$	No. 9	$\frac{7}{16}$
100	42057	$1\frac{1}{2}$	$7\frac{5}{8}$	$1\frac{1}{2}$	$9\frac{1}{16}$	3	$\frac{3}{8}$—16 thd		$3\frac{1}{16}$	9	$\frac{13}{32}$	No. 39	$\frac{1}{4}$	$4\frac{9}{16}$	$\frac{7}{16}$	$\frac{7}{16}$	$2\frac{1}{16}$	$1\frac{3}{16}$	$\frac{9}{32}$	$\frac{9}{16}$	$\frac{9}{32}$	$\frac{9}{16}$
200	42061	$2\frac{3}{16}$	$8\frac{9}{16}$	$1\frac{7}{16}$	$12\frac{3}{8}$	$4\frac{1}{2}$	$\frac{1}{2}$—13 thd		$3\frac{1}{2}$	11	$\frac{17}{32}$	No. 31	$\frac{1}{4}$	$5\frac{1}{2}$	$\frac{5}{8}$	$\frac{5}{8}$	$3\frac{1}{8}$	$1\frac{5}{8}$	$\frac{11}{32}$	$\frac{11}{16}$	$\frac{11}{32}$	$\frac{11}{16}$
400	42065	$3\frac{1}{8}$	$10\frac{3}{8}$	2	$14\frac{1}{2}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		$4\frac{3}{8}$	$13\frac{1}{2}$	$\frac{25}{32}$	No. 24	$\frac{5}{16}$	$6\frac{13}{16}$	$\frac{7}{8}$	$\frac{7}{8}$	$4\frac{1}{8}$	$2\frac{3}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$
600	42069	4	$11\frac{1}{4}$	$2\frac{1}{2}$	$16\frac{5}{8}$	$4\frac{1}{2}$	1 —12 thd		$4\frac{7}{8}$	$15\frac{3}{4}$	$1\frac{1}{16}$	$\frac{3}{4}$	No. 24	$\frac{5}{16}$	$7\frac{3}{4}$	$1\frac{1}{16}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{7}{8}$	$\frac{13}{32}$	$\frac{13}{16}$	$\frac{13}{32}$	$\frac{13}{16}$

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Double-Throw, Front Connected on Slate Bases with Open Link Fuse Connections. 250 Volts

Dimensions



SINGLE-POLE

Amp.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41676	11	2½	7/16	3⅛	4 9/16	3/4	½	5½	
60	41684	14	3	9/16	3¼	5 7/16	31/32	3/4	7	
100	41692	16	4	9/16	4 11/16	7 9/16	1½	3/4	8	
200	41700	22	5	5/8	5½	8 9/16	1 7/16	1	11	
300	41708	27	6¼	5/8	6½	9 9/16	1 11/16	1	13½	
400	41716	30½	7	11/16	7⅜	10	2	1¼	15¼	
600	41724	35	8	1	9½	11 5/16	2½	1¼	17½	
800	41732	38	9	1	9¾	13 9/16	2 11/16	1½	19	

DOUBLE-POLE

Amp.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41677	11	4⅜	7/16	3⅛	4 11/16	3/4	½	5½	2 5/16
60	41685	14	6	9/16	3¼	6⅜	31/32	3/4	7	2 13/16
100	41693	16	7	9/16	4 11/16	7 9/16	1½	3/4	8	3 1/16
200	41701	22	9½	5/8	5½	8½	1 7/16	1	11	3¾
300	41709	27	12	5/8	6½	9 9/16	1 11/16	1	13½	4
400	41717	30½	14	11/16	7⅜	10 9/16	2	1¼	15¼	4 3/8
600	41725	35	16	1	9½	11⅜	2½	1¼	17½	4 7/8
800	41733	38	17½	1	9¾	13⅞	2 11/16	1½	19	5⅜

TRIPLE-POLE

Amp.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41678	11	7	7/16	3⅛	4 11/16	3/4	½	5½	2 5/16
60	41686	14	9	9/16	3⅜	6⅛	31/32	3/4	7	2 13/16
100	41694	16	10	9/16	4 11/16	7 9/16	1¼	3/4	8	3 1/16
200	41702	22	13½	5/8	5½	8½	1 7/16	1	11	3¾
300	41710	27	16	5/8	6½	9 9/16	1 11/16	1	13½	4
400	41718	30½	18	11/16	7⅜	10 9/16	2	1¼	15¼	4 3/8
600	41726	35	20¾	1	9½	11⅜	2½	1¼	17½	4 7/8
800	41734	38	23	1	9¾	13¾	2 11/16	1½	19	5⅜

FOUR-POLE

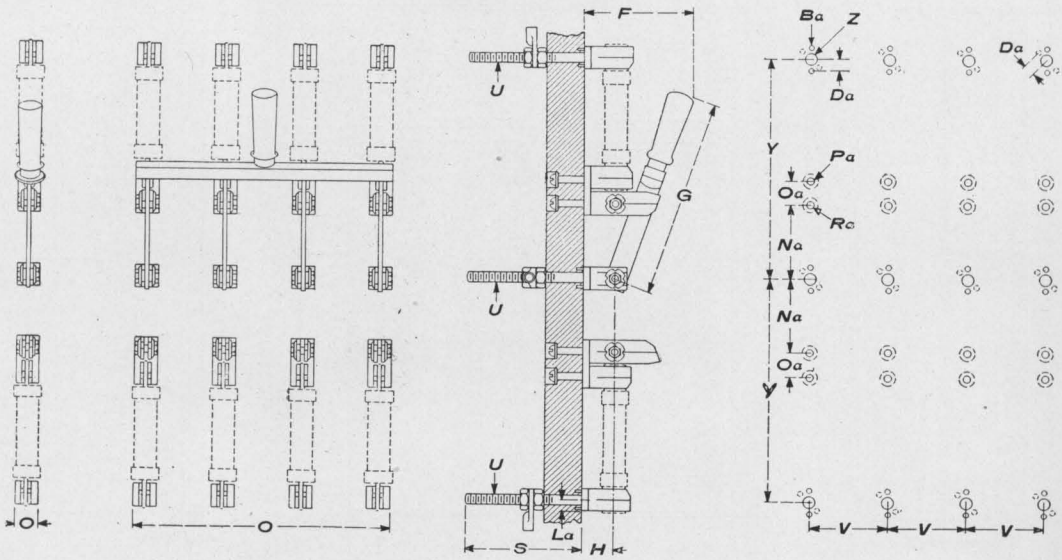
Amp.	Cat. No.	B	C	D	F	G	H	J	K	V
30	41679	11	9½	7/16	3⅛	4⅜	3/4	½	5½	2 5/16
60	41687	14	12	9/16	3⅜	6 9/16	31/32	3/4	7	2 13/16
100	41695	16	13	9/16	4 11/16	7⅞	1¼	3/4	8	3 1/16
200	41703	22	17	5/8	5½	8 9/16	1 7/16	1	11	3¾
300	41711	27	20	5/8	6½	9⅝	1 11/16	1	13½	4
400	41719	30½	22½	11/16	7⅜	10⅝	2	1¼	15¼	4 3/8
600	41727	35	25½	1	9½	11¾	2½	1¼	17½	4 7/8
800	41735	38	28	1	9¾	13¾	2 11/16	1½	19	5⅜

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Double-Throw, Back Connected for Mounting on Panels, with National Electrical Code Standard Enclosed Fuse Connections, 250 Volts.

Dimensions



SINGLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Ba	Da	La	Na	Oa	Pa	Ra
30	41994	$2\frac{5}{8}$	$4\frac{9}{16}$	$\frac{3}{4}$	$\frac{5}{8}$	3	$\frac{5}{16}$—18 thd		$4\frac{3}{16}$	$\frac{11}{32}$			$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{5}{8}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 17 drill $\frac{13}{32}$" C.B.
60	42002	$3\frac{1}{4}$	$5\frac{7}{8}$	$\frac{31}{32}$	$\frac{7}{8}$	3	$\frac{5}{16}$—18 thd		$5\frac{13}{32}$	$\frac{11}{32}$			$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{3}{4}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 9 drill $\frac{7}{16}$" C.B
100	42010	$3\frac{15}{16}$	$7\frac{9}{16}$	$1\frac{1}{4}$	$\frac{31}{32}$	3	$\frac{3}{8}$—16 thd		$8\frac{13}{16}$	$\frac{13}{32}$			$\frac{7}{16}$	$2\frac{15}{16}$	1	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.
200	42018	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$1\frac{1}{4}$	$4\frac{1}{2}$	$\frac{7}{16}$—13 shd		$10\frac{13}{16}$	$\frac{17}{32}$	No. 31 drill $\frac{1}{4}$" deep	$\frac{1}{2}$	$\frac{3}{8}$	$3\frac{5}{8}$	$1\frac{7}{16}$	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.
400	42026	$6\frac{1}{2}$	10	2	$1\frac{3}{4}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd		$13\frac{1}{8}$	$\frac{25}{32}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{9}{16}$	$\frac{1}{2}$	$4\frac{3}{8}$	2	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.
600	42034	$8\frac{1}{4}$	$11\frac{5}{16}$	$2\frac{1}{2}$	2	$4\frac{1}{2}$	1 —12 thd		$15\frac{1}{4}$	$1\frac{1}{16}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{3}{4}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.

DOUBLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Ba	Da	La	Na	Oa	Pa	Ra
30	41995	$2\frac{5}{8}$	$4\frac{11}{16}$	$\frac{3}{4}$	$2\frac{15}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{3}{16}$	$\frac{11}{32}$			$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{5}{8}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 17 drill $\frac{13}{32}$" C.B.
60	42003	$3\frac{1}{4}$	$6\frac{1}{8}$	$\frac{31}{32}$	$3\frac{13}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{13}{32}$	$\frac{11}{32}$			$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{3}{4}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 9 drill $\frac{7}{16}$" C.B
100	42011	$3\frac{15}{16}$	$7\frac{9}{16}$	$1\frac{1}{4}$	$3\frac{13}{16}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$8\frac{13}{16}$	$\frac{13}{32}$			$\frac{7}{16}$	$2\frac{15}{16}$	1	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.
200	42019	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$4\frac{7}{16}$	$4\frac{1}{2}$	$\frac{7}{16}$—13 thd	$3\frac{3}{4}$	$10\frac{13}{16}$	$\frac{17}{32}$	No. 31 drill $\frac{1}{4}$" deep	$\frac{1}{2}$	$\frac{3}{8}$	$3\frac{5}{8}$	$1\frac{7}{16}$	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.
400	42027	$6\frac{1}{2}$	$10\frac{5}{16}$	2	$5\frac{7}{8}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	$13\frac{1}{8}$	$\frac{25}{32}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{9}{16}$	$\frac{1}{2}$	$4\frac{3}{8}$	2	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.
600	42035	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{2}$	$6\frac{7}{8}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$15\frac{1}{4}$	$1\frac{1}{16}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{3}{4}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.

TRIPLE-POLE

Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Ba	Da	La	Na	Oa	Pa	Ra
30	41996	$2\frac{5}{8}$	$4\frac{11}{16}$	$\frac{3}{4}$	$5\frac{1}{4}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{3}{16}$	$\frac{11}{32}$			$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{5}{8}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 17 drill $\frac{13}{32}$" C.B.
60	42004	$3\frac{1}{4}$	$6\frac{1}{8}$	$\frac{31}{32}$	$6\frac{3}{4}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{13}{32}$	$\frac{11}{32}$			$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{3}{4}$	No. 17 drill $\frac{13}{32}$" C.B.	No 9 drill $\frac{7}{16}$" C.B.
100	42012	$3\frac{15}{16}$	$7\frac{9}{16}$	$1\frac{1}{4}$	$6\frac{7}{8}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$8\frac{13}{16}$	$\frac{13}{32}$			$\frac{7}{16}$	$2\frac{15}{16}$	1	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.
200	42020	$4\frac{1}{2}$	$8\frac{3}{16}$	$1\frac{7}{16}$	$8\frac{5}{8}$	$4\frac{1}{2}$	$\frac{7}{16}$—13 thd	$3\frac{3}{4}$	$10\frac{13}{16}$	$\frac{17}{32}$	No. 39 drill $\frac{1}{4}$" deep	$\frac{1}{2}$	$\frac{3}{8}$	$3\frac{5}{8}$	$1\frac{7}{16}$	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.
400	42028	$6\frac{1}{2}$	$10\frac{5}{16}$	2	$10\frac{1}{4}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	$13\frac{1}{8}$	$\frac{25}{32}$	No. 31 drill $\frac{1}{4}$" deep	$\frac{9}{16}$	$\frac{1}{2}$	$4\frac{3}{8}$	2	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.
600	42036	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{2}$	$11\frac{1}{4}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$15\frac{1}{4}$	$1\frac{1}{16}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{3}{4}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.

FOUR-POLE

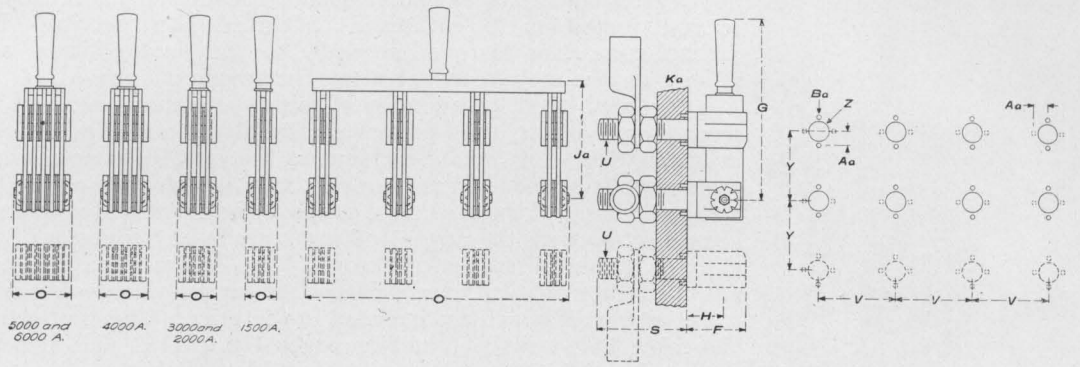
Amp.	Cat. No.	F	G	H	O	S	U	V	Y	Z	Ba	Da	La	Na	Oa	Pa	Ra
30	41997	$2\frac{5}{8}$	$4\frac{3}{4}$	$\frac{3}{4}$	$7\frac{9}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{5}{16}$	$4\frac{3}{16}$	$\frac{11}{32}$			$\frac{1}{4}$	$2\frac{1}{16}$	$\frac{5}{8}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 17 drill $\frac{13}{32}$" C.B.
60	42005	$3\frac{1}{4}$	$6\frac{3}{16}$	$\frac{31}{32}$	$9\frac{11}{16}$	3	$\frac{5}{16}$—18 thd	$2\frac{15}{16}$	$5\frac{13}{32}$	$\frac{11}{32}$			$\frac{5}{16}$	$2\frac{11}{16}$	$\frac{3}{4}$	No. 17 drill $\frac{13}{32}$" C.B.	No. 9 drill $\frac{7}{16}$" C.B.
100	42013	$3\frac{15}{16}$	$7\frac{5}{8}$	$1\frac{1}{4}$	$9\frac{15}{16}$	3	$\frac{3}{8}$—16 thd	$3\frac{1}{16}$	$8\frac{13}{16}$	$\frac{13}{32}$			$\frac{7}{16}$	$2\frac{15}{16}$	1	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.	$\frac{9}{32}$ drill $\frac{9}{16}$" C.B.
200	42021	$4\frac{1}{2}$	$8\frac{9}{16}$	$1\frac{7}{16}$	$12\frac{3}{8}$	$4\frac{1}{2}$	$\frac{7}{16}$—13 thd	$3\frac{3}{4}$	$10\frac{13}{16}$	$\frac{17}{32}$	No. 39 drill $\frac{1}{4}$" deep	$\frac{1}{2}$	$\frac{3}{8}$	$3\frac{5}{8}$	$1\frac{7}{16}$	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B	$\frac{11}{32}$ drill $\frac{11}{16}$" C.B.
400	42029	$6\frac{1}{2}$	$10\frac{3}{8}$	2	$14\frac{5}{8}$	$4\frac{1}{2}$	$\frac{3}{4}$—12 thd	$4\frac{3}{8}$	$13\frac{1}{8}$	$\frac{25}{32}$	No. 31 drill $\frac{1}{4}$" deep	$\frac{9}{16}$	$\frac{1}{2}$	$4\frac{3}{8}$	2	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.
600	42037	$8\frac{1}{4}$	$11\frac{3}{4}$	$2\frac{1}{2}$	$16\frac{5}{8}$	$4\frac{1}{2}$	1 —12 thd	$4\frac{7}{8}$	$15\frac{1}{4}$	$1\frac{1}{16}$	No. 24 drill $\frac{5}{16}$" deep	$\frac{3}{4}$	$1\frac{1}{16}$	$4\frac{1}{4}$	$2\frac{3}{8}$	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.	$\frac{13}{32}$ drill $\frac{13}{16}$" C.B.

For REFERENCE ONLY.

LEVER SWITCHES

Type L, Form D-12, Single and Double-Throw, Back Connected for Mounting on Panels, without Fuse Connections 250 Volts

Dimensions



SINGLE-POLE

Ampere	Cat. No. Single-Throw	Cat. No. Double-Throw	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka
1500	41896	41900	$4\frac{1}{4}$	$13\frac{1}{2}$	$2\frac{11}{16}$	$2\frac{5}{8}$	$5\frac{1}{2}$	$1\frac{1}{2}$–12 thd		$5\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{16}$	No. 2	$\frac{3}{8}$		$1\frac{1}{4}$
2000	41904	41908	$4\frac{1}{4}$	$15\frac{1}{2}$	$2\frac{11}{16}$	$3\frac{9}{16}$	$5\frac{1}{2}$	$1\frac{1}{2}$–12 thd		$5\frac{3}{4}$	$1\frac{3}{16}$	$1\frac{3}{16}$	No. 2	$\frac{3}{8}$		$1\frac{1}{4}$
3000	41912	41915	$6\frac{1}{8}$	$17\frac{3}{8}$	4	$3\frac{13}{32}$	7	2 –12 thd		$6\frac{3}{4}$	$2\frac{3}{32}$	$1\frac{1}{2}$	No. 2	$\frac{3}{8}$		$1\frac{3}{4}$
4000	41918	41920	$6\frac{1}{8}$	$17\frac{3}{8}$	4	$4\frac{5}{16}$	7	$2\frac{1}{2}$–12 thd		$6\frac{3}{4}$	$2\frac{19}{32}$	$1\frac{27}{32}$	$\frac{5}{16}$	$\frac{1}{2}$		$1\frac{3}{4}$
5000	41922	41923	$6\frac{1}{8}$	$17\frac{13}{16}$	4	$5\frac{11}{32}$	10	$2\frac{3}{4}$–12 thd		$6\frac{3}{4}$	$2\frac{13}{16}$	2	$\frac{5}{16}$	$\frac{1}{2}$		$1\frac{3}{4}$
6000	41924	41925	$6\frac{1}{8}$	$17\frac{13}{16}$	4	$5\frac{11}{32}$	10	3 –12 thd		$6\frac{3}{4}$	$3\frac{9}{32}$	2	$\frac{5}{16}$	$\frac{1}{2}$		$1\frac{3}{4}$

DOUBLE-POLE

Ampere	Cat. No. Single-Throw	Cat. No. Double-Throw	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka
1500	41897	41901	$4\frac{1}{4}$	$13\frac{7}{8}$	$2\frac{11}{16}$	$8\frac{3}{8}$	$5\frac{1}{2}$	$1\frac{1}{2}$–12 thd	$5\frac{3}{4}$	$5\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{16}$	No. 2	$\frac{3}{8}$	$8\frac{7}{8}$	$1\frac{1}{4}$
2000	41905	41909	$4\frac{1}{4}$	16	$2\frac{11}{16}$	$10\frac{1}{16}$	$5\frac{1}{2}$	$1\frac{3}{4}$–12 thd	$6\frac{1}{2}$	$5\frac{3}{4}$	$1\frac{13}{16}$	$1\frac{3}{16}$	No. 2	$\frac{3}{8}$	9	$1\frac{1}{4}$
3000	41913	41916	$6\frac{1}{8}$	$17\frac{7}{8}$	4	$9\frac{29}{32}$	7	2 –12 thd	$6\frac{1}{2}$	$6\frac{3}{4}$	$2\frac{3}{32}$	$1\frac{1}{2}$	No. 2	$\frac{3}{8}$	$10\frac{7}{8}$	$1\frac{3}{4}$
4000	41919	41921	$6\frac{1}{8}$	$17\frac{7}{8}$	4	$11\frac{1}{16}$	7	$2\frac{1}{2}$–12 thd	$7\frac{3}{8}$	$6\frac{3}{4}$	$2\frac{19}{32}$	$1\frac{27}{32}$	$\frac{5}{16}$	$\frac{1}{2}$	$10\frac{7}{8}$	$1\frac{3}{4}$

TRIPLE-POLE

Ampere	Cat. No. Single-Throw	Cat. No. Double-Throw	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka
1500	41898	41902	$4\frac{1}{4}$	$13\frac{7}{8}$	$2\frac{11}{16}$	$14\frac{1}{8}$	$5\frac{1}{2}$	$1\frac{1}{2}$–12 thd	$5\frac{3}{4}$	$5\frac{3}{4}$	$1\frac{9}{16}$	$1\frac{1}{16}$	No. 2	$\frac{3}{8}$	$8\frac{7}{8}$	$1\frac{1}{4}$
2000	41906	41910	$4\frac{1}{4}$	16	$2\frac{11}{16}$	$16\frac{9}{16}$	$5\frac{1}{2}$	$1\frac{3}{4}$–12 thd	$6\frac{1}{2}$	$5\frac{3}{4}$	$1\frac{13}{16}$	$1\frac{3}{16}$	No. 2	$\frac{3}{8}$	9	$1\frac{1}{4}$
3000	41914	41917	$6\frac{1}{8}$	$17\frac{7}{8}$	4	$16\frac{13}{32}$	7	2 –12 thd	$6\frac{1}{2}$	$6\frac{3}{4}$	$2\frac{3}{32}$	$1\frac{1}{2}$	No. 2	$\frac{3}{8}$	$10\frac{7}{8}$	$1\frac{3}{4}$

FOUR-POLE

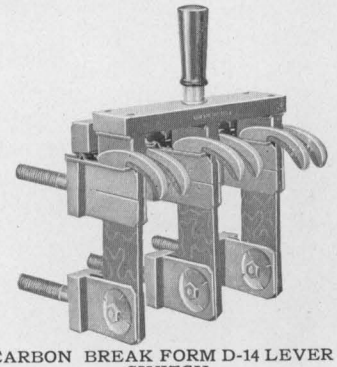
Ampere	Cat. No. Single-Throw	Cat. No. Double-Throw	F	G	H	O	S	U	V	Y	Z	Aa	Ba Drill	Ba Depth	Ja	Ka
1500	41899	41903	$4\frac{1}{4}$	$13\frac{7}{8}$	$2\frac{11}{16}$	$19\frac{7}{8}$	$5\frac{1}{2}$	$1\frac{1}{2}$–12 thd	$5\frac{3}{8}$	$5\frac{3}{8}$	$1\frac{9}{16}$	$1\frac{1}{16}$	No. 2	$\frac{3}{8}$	$8\frac{7}{8}$	$1\frac{1}{4}$
2000	41907	41911	$4\frac{1}{4}$	16	$2\frac{11}{16}$	$23\frac{1}{16}$	$5\frac{1}{2}$	$1\frac{3}{4}$–12 thd	$6\frac{1}{2}$	$5\frac{3}{4}$	$1\frac{13}{16}$	$1\frac{3}{16}$	No. 2	$\frac{3}{8}$	9	$1\frac{1}{4}$

For REFERENCE ONLY.

CARBON BREAK LEVER SWITCHES

Type L, Form D-14, 250 Volts Direct Current, 500 Volts Alternating Current

These switches are designed to open circuits subject to severe arcing, such as that produced by inductive loads. In general construction these switches resemble the Form D-12 Lever Switches. Attached to the clip block is an auxiliary metal contact, readily replaceable, and so constructed as to withstand continued hard service. The carbon contact is fastened securely to the switch blade, and slides over the metal contact when the switch is opened.



CARBON BREAK FORM D-14 LEVER SWITCH

The final break on switches of this type is made between the secondary contacts, thus preserving the blades and clips from the injurious effects of the arc incident to the field discharge when the switch is opened. In the double-throw switch of this type, the carbon contacts of the blades are so shaped and arranged as to serve in connection with the upper and lower secondary contacts of the clips in either direction of throw. The General Electric Company's Carbon Break Lever Switches are furnished complete with cable terminals which are included in the price. The diameter of the cable hole will be found on pages 416 to 418. When bases are furnished they are made of natural black slate.

Type L, Form D-14, Lever Switches, Back Connected for Mounting on 1½" or 2" Panels, without Fuse Connections

Single-Throw					Double-Throw				
Cat. No.	Ampere	Description			Cat. No.	Ampere	Description		
42196	30	S. P.			42200	30	S. P.		
42197	30	D. P.			42201	30	D. P.		
42198	30	T. P.			42202	30	T. P.		
42199	30	4 P.			42203	30	4 P.		
42204	60	S. P.			42208	60	S. P.		
42205	60	D. P.			42209	60	D. P.		
42206	60	T. P.			42210	60	T. P.		
42207	60	4 P.			42211	60	4 P.		
42212	100	S. P.			42216	100	S. P.		
42213	100	D. P.			42217	100	D. P.		
42214	100	T. P.			42218	100	T. P.		
42215	100	4 P.			42219	100	4 P.		
42220	200	S. P.			42224	200	S. P.		
42221	200	D. P.			42225	200	D. P.		
42222	200	T. P.			42226	200	T. P.		
42223	200	4 P.			42227	200	4 P.		
42228	300	S. P.			42232	300	S. P.		
42229	300	D. P.			42233	300	D. P.		
42230	300	T. P.			42234	300	T. P.		
42231	300	4 P.			42235	300	4 P.		
42236	400	S. P.			42240	400	S. P.		
42237	400	D. P.			42241	400	D. P.		
42238	400	T. P.			42242	400	T. P.		
42239	400	4 P.			42243	400	4 P.		
42244	600	S. P.			42248	600	S. P.		
42245	600	D. P.			42249	600	D. P.		
42246	600	T. P.			42250	600	T. P.		
42247	600	4 P.			42251	600	4 P.		
42252	800	S. P.			42256	800	S. P.		
42253	800	D. P.			42257	800	D. P.		
42254	800	T. P.			42258	800	T. P.		
42255	800	4 P.			42259	800	4 P.		
42260	1000	S. P.			42264	1000	S. P.		
42261	1000	D. P.			42265	1000	D. P.		
42262	1000	T. P.			42266	1000	T. P.		
42263	1000	4 P.			42267	1000	4 P.		

For dimensions see page 306.

CARBON BREAK LEVER SWITCHES

Type L, Form D-14 Feeder Switches, with Connections for Open Link Fuses

SINGLE-THROW

Cat. No.	Ampere	Description	List Price	Cat No.	Ampere	Description	List Price
42268	30	S. P.		42288	400	S. P.	
42269	30	D. P.		42289	400	D. P.	
42270	30	T. P.		42290	400	T. P.	
42271	30	4 P.		42291	400	4 P.	
42272	60	S. P.		42292	600	S. P.	
42273	60	D. P.		42293	600	D. P.	
42274	60	T. P.		42294	600	T. P.	
42275	60	4 P.		42295	600	4 P.	
42276	100	S. P.		42296	800	S. P.	
42277	100	D. P.		42297	800	D. P.	
42278	100	T. P.		42298	800	T. P.	
42279	100	4 P.		42299	800	4 P.	
42280	200	S. P.		42300	1000	S. P.	
42281	200	D. P.		42301	1000	D. P.	
42282	200	T. P.		42302	1000	T. P.	
42283	200	4 P.		42303	1000	4 P.	
42284	300	S. P.					
42285	300	D. P.					
42286	300	T. P.					
42287	300	4 P.					

For dimensions see page 305.

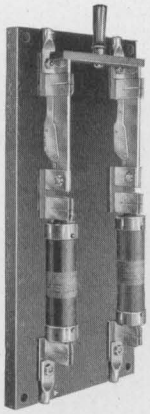
With Connections for National Electrical Code Standard Enclosed Fuses

42304	30	S. P.		42316	200	S. P.	
42305	30	D. P.		42317	200	D. P.	
42306	30	T. P.		42318	200	T. P.	
42307	30	4 P.		42319	200	4 P.	
42308	60	S. P.		42320	400	S. P.	
42309	60	D. P.		42321	400	D. P.	
42310	60	T. P.		42322	400	T. P.	
42311	60	4 P.		42323	400	4 P.	
42312	100	S. P.		42324	600	S. P.	
42313	100	D. P.		42325	600	D. P.	
42314	100	T. P.		42326	600	T. P.	
42315	100	4 P.		42327	600	4 P.	

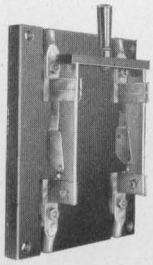
For dimensions see page 308

QUICK BREAK LEVER SWITCHES

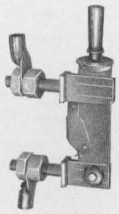
Type Q, Form C-2, 600 Volts Direct Current



Cat. No. 39211



Cat. No. 39099



Cat. No. 39170

Front connected quick break switches are mounted on slate bases, and are made single or double-throw, with one, two, three or four poles, and both with and without fuse connections. The fuse connections are arranged for National Electrical Code Standard enclosed fuses in capacities of from 30 to 600 amperes inclusive. Front connected switches without fuse connections are made in capacities of from 30 to 800 amperes.

Back connected quick break switches are designed for mounting on panels and have no bases but are furnished with drilling templates. They are made with and without fuse connections, single and double-throw, and with one, two, three or four poles. Barriers are used with the two-, three-, and four-pole back connected switches. Back connected switches have capacities of from 60 to 4000 amperes, and are furnished with fuse connections arranged for National Electrical Code Standard enclosed fuses in capacities of from 60 to 600 amperes inclusive. Switches of 1500 ampere capacity, and above, have multiple blades.

For sizes of terminals furnished with each capacity of switch see page 416. Switches of capacities above 1500 amperes are supplied with but one nut per stud and no cable terminals. These may be ordered independently, from page 416.

Finish

Type Q, Form C-2 switches are furnished in two finishes, known as No. 1 and No. 2.

No. 1 FINISH.—All metal parts are dipped and lacquered. This finish is satisfactory for use in ordinary house work, factory or service installation.

No. 2 FINISH.—All metal parts are highly polished and heavily lacquered. This finish is standard for high grade installation and switchboard work.

Placing Orders

Always order by catalogue number, specifying the finish desired.

When reference to finish is omitted, front connected switches will be furnished with No. 1, and back connected switches with No. 2 finish.

QUICK BREAK LEVER SWITCHES

Type Q, Form C-2, 600 Volts, Direct Current, Back Connected for Mounting on Panels With Barriers. Without Fuse Connections

Cat. No.		Amp. Cap.	Description	List Price		Cat. No.		Amp Cap.	Description	List Price	
Single-Throw	Double-Throw			Single-Throw	Double-Throw	Single-Throw	Double-Throw			Single-Throw	Double-Throw
39138	39142	60	S. P.	Prices on application	Prices on application	39178	39182	800	S. P.	Prices on application	Prices on application
39139	39143	60	D. P.			39179	39183	800	D. P.		
39140	39144	60	T. P.			39180	39184	800	T. P.		
39141	39145	60	4 P.			39181	39185	800	4 P.		
39146	39150	100	S. P.			39494	39497	1000	S. P.		
39147	39151	100	D. P.			39495	39498	1000	D. P.		
39148	39152	100	T. P.			39496	39499	1000	T. P.		
39149	39153	100	4 P.			45058	45062	1200	S. P.		
39154	39158	200	S. P.			45059	45063	1200	D. P.		
39155	39159	200	D. P.			45060	45064	1200	T. P.		
39156	39160	200	T. P			45061	45065	1200	4 P.		
39157	39161	200	4 P.			39500	39503	1500	S. P.		
45048	45052	300	S. P.			39501	39504	1500	D. P.		
45049	45053	300	D. P.			39502	39505	1500	T. P.		
45050	45054	300	T. P.			39506	39509	2000	S. P.		
45051	45055	300	4 P.			39507	39510	2000	D. P.		
39162	39166	400	S. P.			39508	39511	2000	T. P.		
39163	39167	400	D. P.			45070	45074	3000	S. P.		
39164	39168	400	T. P.			39512	39513	4000	S. P.		
39165	39169	400	4 P.			45084	45085	5000	S. P.		
39170	39174	600	S. P.			45086	45087	6000	S. P.		
39171	39175	600	D. P.								
39172	39176	600	T. P.								
39173	39177	600	4 P.								

With Fuse Connections

39242	39246	60	S. P.	Prices on application	Prices on application	39260	39264	200	T. P.	Prices on application	Prices on application
39243	39247	60	D. P.			39261	39265	200	4 P.		
39244	39248	60	T. P.			39266	39270	400	S. P.		
39245	39249	60	4 P.			39267	39271	400	D. P.		
39250	39254	100	S. P.			39268	39272	400	T. P.		
39251	39255	100	D. P.			39269	39273	400	4 P.		
39252	39256	100	T. P.			39274	39278	600	S. P.		
39253	39257	100	4 P.			39275	39279	600	D. P.		
39258	39262	200	S. P.			39276	39280	600	T. P.		
39259	39263	200	D. P.			39277	39281	600	4 P.		

Front Connected Mounted on Slate Bases Without Barriers, Without Fuse Connections

36100	36104	30	S. P.	Prices on application	Prices on application	39100	39104	200	T. P.	Prices on application	Prices on application
36101	36105	30	D. P.			39101	39105	200	4 P.		
36102	36106	30	T. P.			39106	39110	400	S. P.		
36103	36107	30	4 P.			39107	39111	400	D. P.		
39082	39086	60	S. P.			39108	39112	400	T. P.		
39083	39087	60	D. P.			39109	39113	400	4 P.		
39084	39088	60	T. P.			39114	39118	600	S. P.		
39085	39089	60	4 P.			39115	39119	600	D. P.		
39090	39094	100	S. P.			39116	39120	600	T. P.		
39091	39095	100	D. P.			39117	39121	600	4 P.		
39092	39096	100	T. P.			39122	39126	800	S. P.		
39093	39097	100	4 P.			39123	39127	800	D. P.		
39098	39102	200	S. P.			39124	39128	800	T. P.		
39099	39103	200	D. P.			39125	39129	800	4 P.		

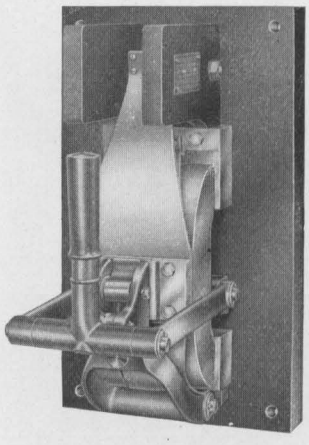
With Connections for N.E.C.S. Enclosed Fuses

39186	39190	30	S. P.	Prices on application	Prices on application	39210	39214	200	S. P.	Prices on application	Prices on application
39187	39191	30	D. P.			39211	39215	200	D. P.		
39188	39192	30	T. P.			39212	39216	200	T. P.		
39189	39193	30	4 P.			39213	39217	200	4 P.		
39194	39198	60	S. P.			39218	39222	400	S. P.		
39195	39199	60	D. P.			39219	39223	400	D. P.		
39196	39200	60	T. P.			39220	39224	400	T. P.		
39197	39201	60	4 P.			39221	39225	400	4 P.		
39202	39206	100	S. P.			39226	39230	600	S. P.		
39203	39207	100	D. P.			39227	39231	600	D. P.		
39204	39208	100	T. P.			39228	39232	600	T. P.		
39205	39209	100	4 P.			39229	39233	600	4 P.		

LAMINATED BRUSH TOGGLE SWITCHES

Type B, Form C-3, 600 Volts Direct Current, Back Connected Without Bases Without Fuses

Brush Toggle Switches are designed expressly for handling extremely heavy currents, and are used chiefly for 600 volt circuits. Their movable contact parts are in the form of laminated copper brushes. The form of construction adopted permits of the opening and closing of switches up to and including 10,000 amperes capacity with comparatively little physical effort. The toggle form of mechanism, which is used to operate the movable element, not only secures ease of operation, but makes the final contact under heavy pressure, insuring the most positive electrical connection.



4000 AMPERE SINGLE-POLE BRUSH TOGGLE SWITCH

The Brush Toggle Switch is provided with a secondary contact on which the circuit is always broken, thus protecting the main contacts from any injury due to arcing. The switch is provided with a magnetic blow-out for the secondary break. Circuits of capacities up to the maximum capacity of the largest size of Brush Toggle Switch can be opened safely under emergency conditions. The brush element of Brush Toggle Switches is of laminated rolled copper, supported between an inner block and the outer lamination of spring bars. Attention is called to the diagrams on page 317, showing the construction of the brush and its clamps. The supporting and actuating mechanism of this switch is finished in black enamel.

The handles are of hard wood, stained black and polished. The exciting circuit of the blow-out element is a coil in series with the secondary contact.

These switches are furnished with but one contact nut per stud and no cable terminals. These should be ordered by catalogue numbers, always giving the quantity of each. (See tables on pages 416 to 419.)

The 8000 and 10000 ampere switches listed below are designed for a panel $2\frac{1}{2}$″ thick.

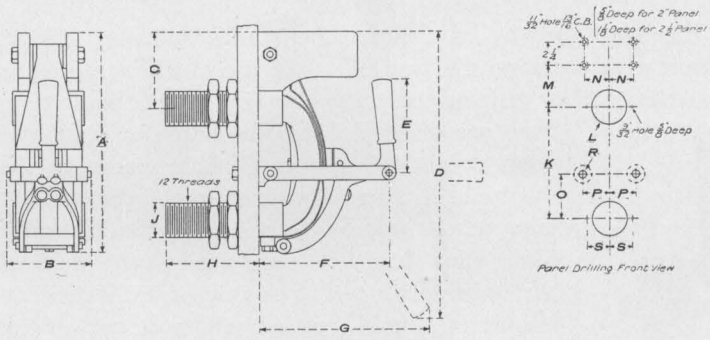
LAMINATED BRUSH TOGGLE SWITCHES

Single-Throw					Double-Throw				
Cat. No.	Description	Amperes	Approx. Ship. Wt. Lbs.	List Price	Cat. No.	Description	Amperes	Approx. Ship. Wt. Lbs.	List Price
35352	S.P.	2000	87	**$145.00**	35357	S.P.	4000	280	**$380.00**
35353	S.P.	4000	150	**230.00**	35358	S.P.	6000	410	**510.00**
35354	S.P.	6000	280	**325.00**					
35355	S.P.	8000	355	**445.00**					
35356	S.P.	10000	500	**545.00**					

LAMINATED BRUSH TOGGLE SWITCHES

Type B, Form C-3, 600 Volts, Direct Current

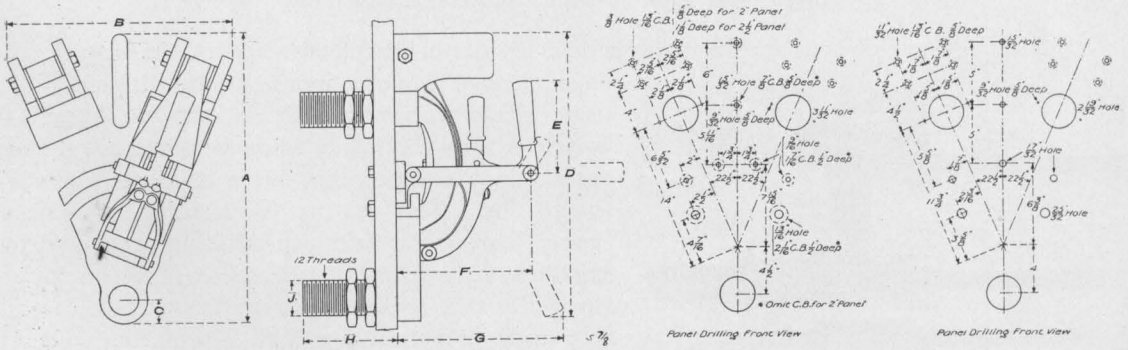
Single-Throw



Amp.	Cat.No.	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	S	Thickness of Panel
2000	35352	16	$5\frac{1}{2}$	$6\frac{7}{32}$	$21\frac{1}{8}$	$6\frac{1}{2}$	9	12	6	$1\frac{3}{4}$	$7\frac{3}{8}$	$1\frac{13}{16}$	$2\frac{15}{16}$	$1\frac{7}{8}$	$2\frac{17}{32}$	$1\frac{1}{4}$	$\frac{17}{32}$	$1\frac{3}{8}$	2
4000	35353	$18\frac{1}{4}$	$7\frac{11}{32}$	$6\frac{21}{32}$	$24\frac{3}{8}$	$7\frac{1}{2}$	$10\frac{1}{4}$	13	7	$2\frac{1}{2}$	9	$2\frac{9}{16}$	$3\frac{3}{8}$	$1\frac{7}{8}$	$3\frac{3}{16}$	$2\frac{3}{16}$	$\frac{17}{32}$	$1\frac{5}{8}$	2
6000	35354	21	$8\frac{7}{32}$	$7\frac{9}{32}$	$27\frac{1}{2}$	9	$12\frac{3}{8}$	16	10	$3\frac{1}{4}$	$10\frac{5}{8}$	$3\frac{11}{32}$	4	$2\frac{5}{16}$	$4\frac{5}{16}$	$2\frac{9}{16}$	*$\frac{21}{32}$	$2\frac{1}{8}$	2 or $2\frac{1}{2}$
8000	35355	$23\frac{5}{8}$	$8\frac{5}{8}$	$7\frac{21}{32}$	$30\frac{7}{8}$	10	$13\frac{3}{4}$	$17\frac{1}{8}$	$11\frac{1}{2}$	4	$12\frac{1}{2}$	$4\frac{3}{32}$	$4\frac{3}{8}$	$2\frac{5}{16}$	$5\frac{1}{4}$	$2\frac{11}{16}$	$\frac{21}{32}$	$2\frac{1}{2}$	$2\frac{1}{2}$
10000	35356	$26\frac{1}{4}$	$9\frac{1}{4}$	$8\frac{9}{32}$	34	$11\frac{1}{2}$	$15\frac{1}{4}$	$19\frac{3}{4}$	$16\frac{1}{2}$	$4\frac{3}{4}$	14	$4\frac{27}{32}$	5	$2\frac{13}{16}$	6	$2\frac{7}{8}$	$\frac{25}{32}$	3	$2\frac{1}{2}$

*$1\frac{13}{16}$ inch C.B. $\frac{1}{2}$ inch deep for $2\frac{1}{2}$ inch panel.

Double-Throw



4000 AMP. 6000 AMP.

Amp.	Cat. No.	A	B	C	D	E	F	G	H	J	Thickness of Panel
4000	35357	$23\frac{3}{4}$	$18\frac{1}{8}$	$1\frac{7}{8}$	$24\frac{1}{4}$	$7\frac{1}{2}$	$10\frac{5}{8}$	$13\frac{1}{4}$	7	$2\frac{1}{2}$	2
6000	35358	28	$21\frac{1}{2}$	$2\frac{1}{4}$	$27\frac{1}{2}$	9	$12\frac{7}{8}$	$15\frac{3}{4}$	10	$3\frac{1}{4}$	2 or $2\frac{1}{2}$

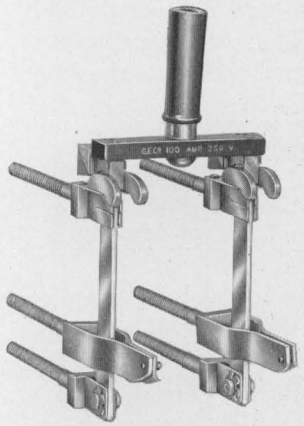
For REFERENCE ONLY.

CARBON BREAK LEVER SWITCHES, WITH DISCHARGE CLIPS

Type L, Form F-5 and F-6

Single and Double-Pole, Single and Double-Throw

The General Electric Company's Discharge Resistance Switch is designed for use on field circuits in connection with discharge resistances. The use of discharge resistance field switches is recommended in connection with all generators having highly inductive field circuits. By their use the inductive discharge is dissipated through the discharge resistance without injury either to the switch or to the machine. These switches are provided with a set of long clips across which is connected the discharge resistance. The hinge clips should be connected to the field of the machine and the upper clips to the source of excitation. When the switch is opened, the source of power is cut off and the field is short circuited through the discharge resistance. On single-throw switches the discharge clips are pinned so as to prevent the switch from being opened too far. Double-throw switches of this type are known as Form F-6 and have "U" shaped discharge clips which arch over the hinge clip, thus preventing the switch from being opened except into the discharge clip.



TYPE L, FORM F-5
D. P. S. T. SWITCH

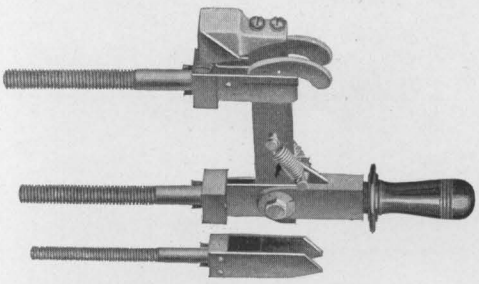
Discharge resistances are not included in list prices of switches. Full information regarding them will be sent on receipt of necessary data regarding the generator.

These switches are made in capacities of 100, 200, 300 and 400 amperes.
Prices on application.

Type Q, Form D-2

Single and Double-Pole, Single-Throw Only

This type of switch is used principally in field circuits of direct current machines and may be used on 600 volt circuits. The difference between this switch and the Type L, Form F-5 and F-6 switch is that the latter when being closed makes contact in the upper clips after it leaves the discharge clip. This feature is essential for certain connections of the field, otherwise an arc would be established between the blade and the discharge clip. For this reason the Type L switch is invariably used in connection with alternating current generators, while the Type Q is used for the field circuits of direct current machines.

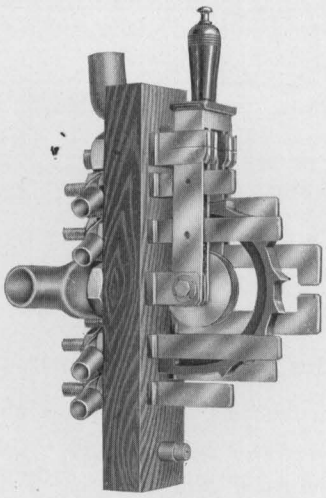


TYPE Q, FORM D-2 S. P. S. T. SWITCH

The switches are made in capacities of 100, 200, 300 and 400 amperes.
Prices on application.

STARTING RHEOSTAT LEVER SWITCHES

Type L, Forms H and H-6, Four-Step Starting Rheostat Switches, 600 Volts



FOUR-STEP STARTING RHEOSTAT SWITCH

This switch is designed to provide a simple and compact form of starting rheostat switch for use in connection with all classes of service with which a four-step rheostat switch can be used. It is manufactured for use with four-division rheostats only. The general mechanical construction of this switch closely resembles that of the Form D-12 Lever Switch, and the arrangement of clips is somewhat similar to that of the field discharge switch. The clips are so arranged that in closing the switch the blades make consecutive contact with each of four sets of clips. Four-step rheostat switches are provided complete with cable terminals and necessary contact nuts. The bore of cable terminals is given in the table on pages 394 to 396.

These switches are made single-pole, four-step, in capacities of 200, 300, 400 and 600 amperes. For starting machines the switches may be used for capacities in excess of the rating, but when so used, they must be connected across the main switch, which must be relied upon to carry the current continuously.

Prices on application.

PLUG SWITCHES

Open-Circuiting Plug Switch

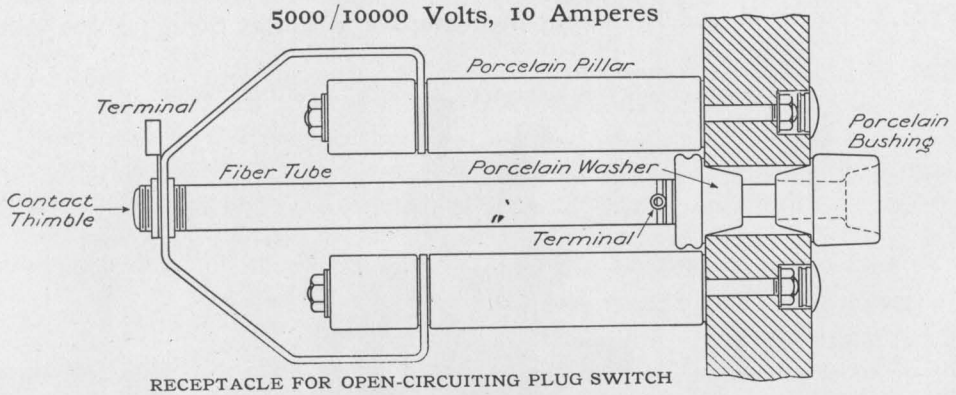
5000/10000 Volts, 10 Amperes

This is the standard switch used on all the General Electric Company's constant current Transformer Panels.

Cat. No.		Description	List Price
1½″ Panel	2″ Panel		
35600	35601	Open Cir. Plug Switch (with brown porcelain bushing) .	$4.00
35602	35603	Open Cir. Plug Switch with Ammeter Jack (with brown porcelain bushing)	8.00
35612	35613	Open Cir. Plug	1.75

PLUG SWITCHES

5000/10000 Volts, 10 Amperes



RECEPTACLE FOR OPEN-CIRCUITING PLUG SWITCH

Bus Transfer Plug Switch

This switch is of the same construction as the open-circuiting plug switch.

The contact farthest from the panel is supported by means of porcelain pillars.

Where several switches are used, the number of supports may be reduced considerably, therefore, when the switches are ordered the number of receptacles, the number of plugs, and the number of porcelain pillars required should always be stated.

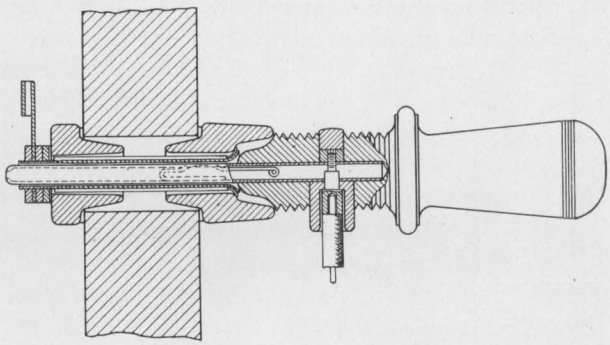
Cat. No.		Description	List Price
1½" Panel	2" Panel		
35604	35605	Receptacle (with brown porcelain insulator)	$0.75
35617	35618	Porcelain Pillar, complete, with stud and all attached parts	.75
35612	35613	Plug	1.75

Cable Transfer Plug Switch

5000/10000 Volts, 10 Amperes

The receptacle of this plug switch is the same as the bus transfer receptacle, with the fiber tube and the contact farthest from the panel omitted.

As the number of plugs is generally less than the number of receptacles, the quantity of each should be stated when ordering. The cable used with these plugs is extra flexible with heavy rubber insulation, and the length should be given when the plugs are ordered.



Cat. No.		Description	List Price
1½" Panel	2" Panel		
35606	35607	Receptacle (with brown porcelain insulator)	$0.60
35614	35614	2 Plugs, with Handles and Cable	5.00

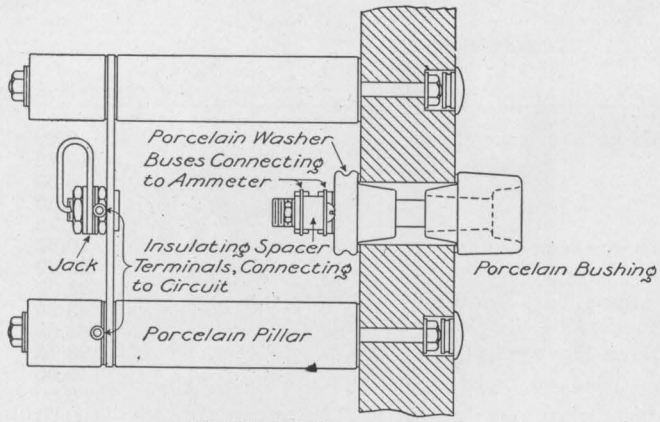
Standard length of cable (which is 10 ft.) will be furnished unless otherwise ordered. Price does not include cable over 10 ft. long.

AIR BREAK SWITCHES

Ammeter Jacks. 10000 Volts—10 Amperes

Ammeter Jacks are made in two forms commonly known as "Bus Ammeter Jack" and "Cable Ammeter Jack." Both forms accomplish the same purpose, but the former is preferable as it eliminates the use of flexible cable on the front of the switchboard.

The ammeter jack is used principally on arc circuits, and connects an ammeter in series with any one of a number of circuits by simply inserting the plug into the receptacle connected to the circuit of which the current is to be read. It does not open the main circuit until the ammeter connections are made, and does not disconnect the ammeter from the circuit until after the main circuit is closed. For this reason it may also be used in the secondaries of current transformers without fear of the transformer remaining open circuited.

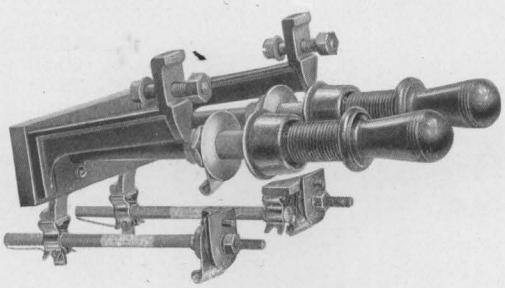


AMMETER JACK

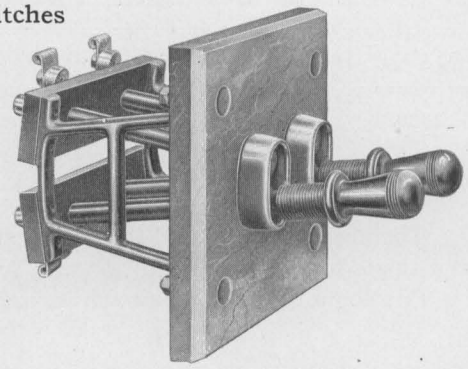
Cat. No. For 1½" Panel	Cat. No. For 2" Panel	Description	List Price
35608	35609	Bus ammeter jack (with brown porcelain insulator) .	$3.00
35610	35611	Cable ammeter jack (with brown porcelain insulator) .	1.25
35615	35616	Bus ammeter jack plug	3.00
25688	25654	Cable ammeter jack plug, with 10 ft. of cable and bushing for cable to pass through the panel	8.00

All plug switch receptacles are listed with brown insulators for the front of the panels; but where the quantity of receptacles on a panel is likely to cause confusion, switches used for different purposes may be distinguished by color. For this reason any of the foregoing switches may be provided with blue porcelain if desired.

Primary Plug Switches



2300 VOLT PLUG SWITCH, SINGLE-THROW, 2 RECEPTACLES, WITH FUSES



2300 VOLT PLUG SWITCH, DOUBLE-THROW, 2 RECEPTACLES, WITHOUT FUSES

These switches are used on the primary side of all constant current transformers and on 2500 volt feeder circuits within their rated ampere capacity. They are made single and double-throw, and the single-throw 2500 volt plug switches are also made up with fuses. This type of switch with two receptacles is shown in the accompanying illustrations.

AIR BREAK SWITCHES

Primary Plug Switches

2500 Volts, 100 Amperes, for Mounting on Panel

Cat. No. For 1½″ Panel	Cat. No. For 2″ Panel	Description	List Price
42515	42520	S. P. S. T. Without fuse connections	$ 7.00
42516	42521	D. P. S. T. " " "	17.75
42517	42522	T. P. S. T. " " "	25.00
42518	42523	4 P. S. T. " " "	31.50
42519	42524	6 P. S. T. " " "	47.25
42525	42530	S. P. S. T. With fuse connections	10.50
42526	42531	D. P. S. T. " " "	23.00
42527	42532	T. P. S. T. " " "	33.00
42528	42533	4 P. S. T. " " "	43.25
42529	42534	6 P. S. T. " " "	63.25
42505	42509	D. P. D. T. Without fuse connections	33.75
42506	42510	T. P. D. T. " " "	49.00
42507	42511	4 P. D. T. " " "	65.00
42508	42512	6 P. D. T. " " "	100.00

The above switches are called multipole, but each plug is pulled independently. They are essentially a group of one or more single-pole switches.

5000 to 10000 Volts, 50 Amperes, for Mounting on Panel

Cat. No. For 2″ Panel	Voltage	Description	List Price
25659	5000	S. P. S. T. Without fuse connections	$16.00
35332	10000	S. P. S. T. " " "	30.00

Pole Line Switch, 2500 Volts, 100 Amperes, Mounted on Bases

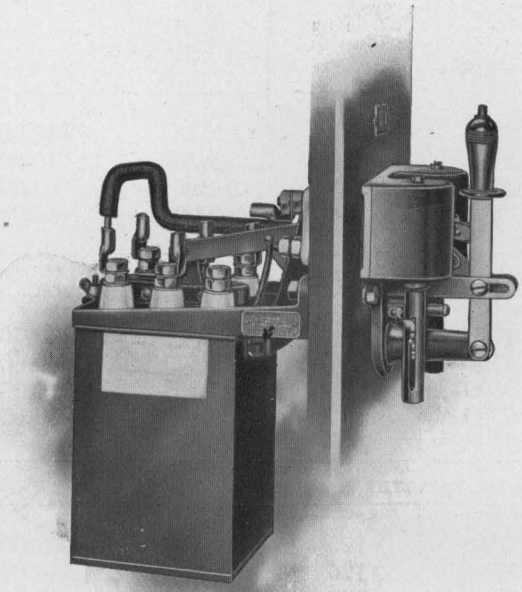
Cat. No.	Description	List Price
27393	S. P. S. T. Without fuse connections	$13.50
27394	D. P. S. T. " " "	26.50
27395	T. P. S. T. " " "	39.00

The above double- and triple-pole switches are two and three single-pole switches mounted on a single base.

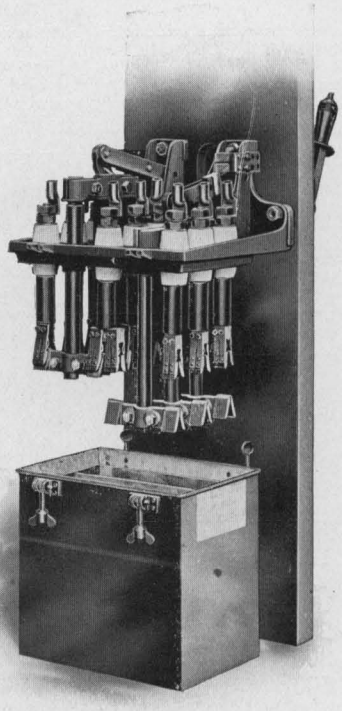
Catalogue number of switch includes plug.

OIL BREAK SWITCHES

4500 Volts, Type F, Form K-3



T.P.S.T. SWITCH WITH TWO OVERLOAD RELEASE COILS IN SERIES WITH MAIN CIRCUIT



T.P.D.T. SWITCH
(Oil Vessel Removed)

The Type F, Form K-3 oil switch has been specially designed to meet the most severe requirements of service on systems of 4500 volts or less. These switches are divided into three classes: those without overload release (non-automatic), those with overload release having coils connected in series with main circuit (automatic), and those with overload release having coils connected to the secondaries of current transformers (automatic).

Tables giving the rating of current transformers and trip coils will be found on the following pages.

The Type F, Form K-3 switch may be furnished with tripping coils wound for direct current circuits also, and, in such cases, will be provided with an auxiliary switch which opens the circuit of the coil immediately after the switch opens.

In ordering, the catalogue number of the switch desired, and the continuous load in amperes, of the circuit on which the switch is to be used, must always be given.

OIL BREAK SWITCHES

4500 Volt Type F, Form K-3, Hand Operated, without Overhead Release

DOUBLE-POLE, SINGLE-THROW, SINGLE-PHASE

Ampere Capacity	Kilowatt Capacity of system with which switch may safely be used*				Wt. in Lbs. (Boxed)	Cat. No.	List Price
	1150 Volts	2300 Volts	3500 Volts	4500 Volts			
100	4400	3975	3750	3525	100	32515	$46.00
200	4400	3975	3750	3525	100	33870	46.00
300	4700	4425	4200	3975	150	34300	60.00
500	4700	4425	4200	3975	170	34909	68.00

TRIPLE-POLE, SINGLE-THROW, THREE-PHASE

100	5900	5300	5000	4700	100	32516	$50.00
200	5900	5300	5000	4700	100	33871	50.00
300	6300	5900	5600	5300	175	34301	70.00
500	6300	5900	5600	5300	180	34910	82.00

FOUR-POLE, SINGLE-THROW, QUARTER-PHASE

100	8850	7950	7500	7050	125	32517	$62.00
200	8850	7950	7500	7050	125	33872	62.00
300	9450	8850	8400	7950	200	34302	85.00
500	9450	8850	8400	7950	220	34911	104.00

DOUBLE-POLE, DOUBLE-THROW, SINGLE-PHASE

100	4425	3975	3750	3525	150	32518	$73.00
200	4425	3975	3750	3525	150	33873	73.00
300	4725	4425	4200	3975	250	34303	106.00
500	4725	4425	4200	3975	270	34912	120.00

TRIPLE-POLE, DOUBLE-THROW, THREE-PHASE

100	5900	5300	5000	4700	150	32519	$87.00
200	5900	5300	5000	4700	150	33874	87.00
300	6300	5900	5600	5300	275	34304	126.00
500	6300	5900	5600	5300	300	34913	146.00

FOUR-POLE, DOUBLE-THROW, QUARTER-PHASE

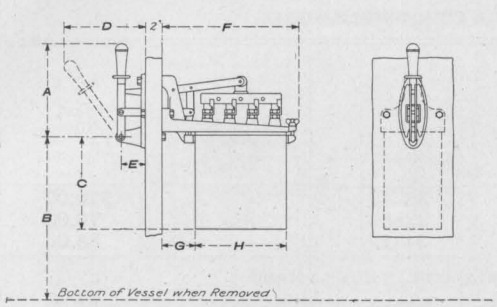
100	8850	7950	7500	7050	200	32520	$104.00
200	8850	7950	7500	7050	200	33875	105.00
300	9450	8850	8400	7950	350	34305	152.00
500	9450	8850	8400	7950	375	34914	178.00

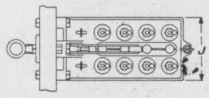
*By the "capacity of system" is meant the total normal kilowatt capacity of all the generators feeding the system to which the switch is connected. This applies to switches used for either generator or feeder circuits. The capacity of switches for intermediate voltages may be obtained by proportion.

The above switches are designed for mounting on panels 2″ thick, but may be used on 1½″ panels by inserting washers between the panel and the switch frame.

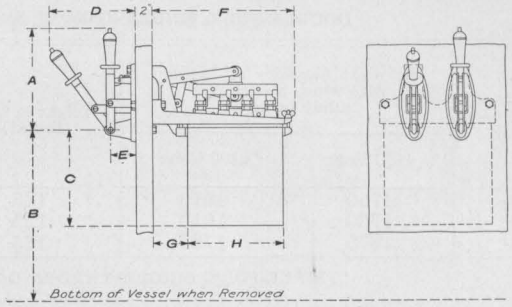
OIL BREAK SWITCHES

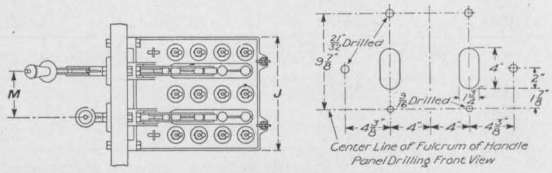
4500 Volt Type F, Form K-3 Hand Operated, without Overload Release





SINGLE-THROW SWITCH





DOUBLE-THROW SWITCH

Poles and Throws	Ampere Capacity	A	B	C	D	E	F	G	H	J	M
D. P. S. T.	100–200	$11\frac{3}{8}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$7\frac{3}{4}$	
D. P. S. T.	300–500	$13\frac{3}{8}$	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$10\frac{1}{4}$	
T. P. S. T.	100–200	$11\frac{3}{8}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$7\frac{3}{4}$	
T. P. S. T.	300–500	$13\frac{3}{8}$	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$10\frac{1}{4}$	
4-P. S. T.	100–200	$11\frac{3}{8}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	17	$4\frac{1}{8}$	$11\frac{1}{4}$	$7\frac{3}{4}$	
4-P. S. T.	300–500	$13\frac{3}{8}$	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$22\frac{3}{8}$	$6\frac{5}{16}$	$14\frac{3}{8}$	$10\frac{1}{4}$	
D. P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$13\frac{1}{4}$	$5\frac{1}{2}$
D. P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$18\frac{1}{4}$	8
T. P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$13\frac{1}{4}$	$5\frac{1}{2}$
T. P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$18\frac{1}{4}$	8
4-P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$9\frac{7}{8}$	3	17	$4\frac{1}{8}$	$11\frac{1}{4}$	$13\frac{1}{4}$	$5\frac{1}{2}$
4-P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$22\frac{3}{8}$	$6\frac{5}{16}$	$14\frac{3}{8}$	$18\frac{1}{4}$	8

OIL BREAK SWITCHES

2500 Volt Type F, Form K-3, Hand Operated, with Overload Release

With Coils for Connecting in Series with Main Circuit

DOUBLE-POLE, SINGLE-THROW, SINGLE COIL, SINGLE-PHASE

Ampere Capacity	Kilowatt Capacity of System with which Switch may safely be used*		Weight in Lbs. (Boxed)	Cat. No.	Refer to Accompanying Diagrams	List Price
	1150 Volts	2300 Volts				
100	1760	1610	125	33743	Fig. 1	$70.00
200	1760	1610	125	33889		70.00
300	1875	1785	175	34319		88.00
TRIPLE-POLE, SINGLE-THROW, DOUBLE COIL, THREE-PHASE						
100	2350	2150	125	33746	Fig. 2	$90.00
200	2350	2150	125	33892		90.00
300	2500	2380	200	34322		116.00
FOUR-POLE, SINGLE-THROW, DOUBLE COIL, QUARTER-PHASE						
100	3525	3225	150	35333	Fig. 3	$100.00
200	3525	3225	150	35335		100.00
300	3750	3570	225	35337		134.00
DOUBLE-POLE, DOUBLE-THROW, SINGLE COIL, SINGLE-PHASE						
100	1762	1612	175	33744	Figs. 4–7	$98.00
200	1762	1612	175	33890		98.00
300	1875	1785	275	34320		134.00
TRIPLE-POLE, DOUBLE-THROW, DOUBLE COIL, THREE-PHASE						
100	2350	2150	175	33747	Figs. 5–8	$125.00
200	2350	2150	175	33893		125.00
300	2500	2380	300	34323		174.00
FOUR-POLE, DOUBLE-THROW, DOUBLE COIL, QUARTER-PHASE						
100	3525	3225	225	35334	Figs. 6-9	$142.00
200	3525	3225	225	35336		142.00
300	3750	3570	350	35338		198.00

When ordering any of the above switches it will always be necessary to specify the ampere capacity of the overload coils. The sizes applicable to the various switches are listed below.

Ampere Capacity of Switch	Maximum Continuous Ampere Capacity of Coil	Minimum Tripping Point	Maximum Tripping Point	Ampere Capacity of Switch	Maximum Continuous Ampere Capacity of Coil	Minimum Tripping Point	Maximum Tripping Point
100	10	10	30	100	100	100	300
	20	20	60		150	200	450
	30	30	90	200	200	150	600
200	40	40	120		200	200	600
	50	50	150	300	300	300	900
	75	75	225				

*By the "capacity of system" is meant the total normal kilowatt capacity of all the generators feeding the system to which the switch is connected. This applies to switches used for either generator or feeder circuits. The capacity of switches for intermediate voltages may be obtained by proportion.

All switches will be built for mounting on panels 2" thick, if thickness is not specified.

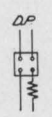


Fig. 1

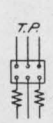


Fig. 2

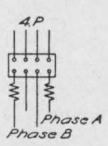


Fig. 3

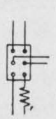


Fig. 4

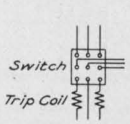


Fig. 5

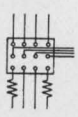


Fig. 6

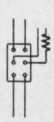


Fig. 7

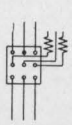


Fig. 8

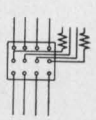
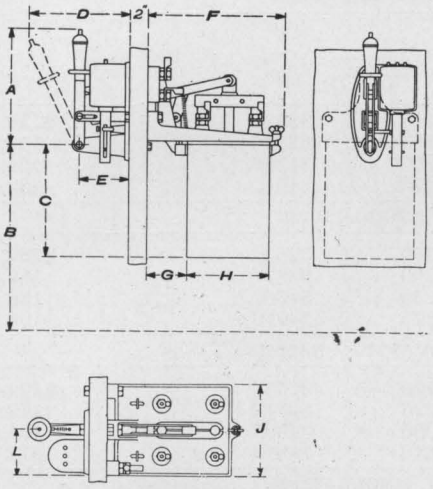


Fig. 9

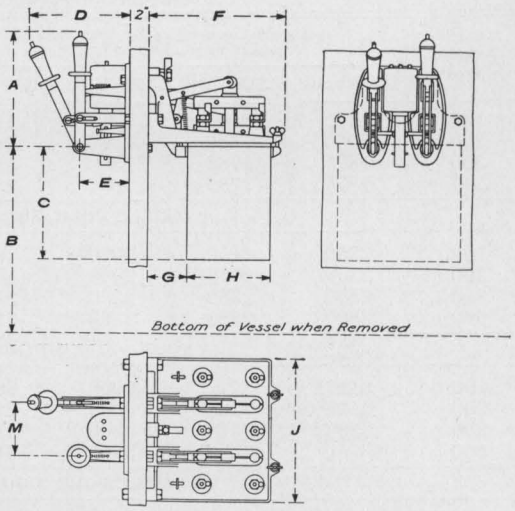
OIL BREAK SWITCHES

2500 Volt Type F, Form K-3, Hand Operated, with Overload Release

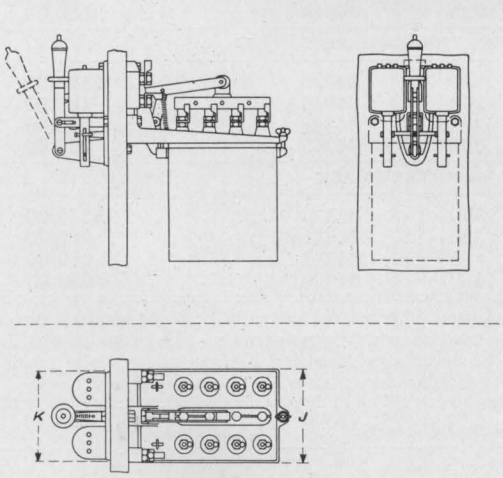
With Coils for Connecting in Series with Main Circuit



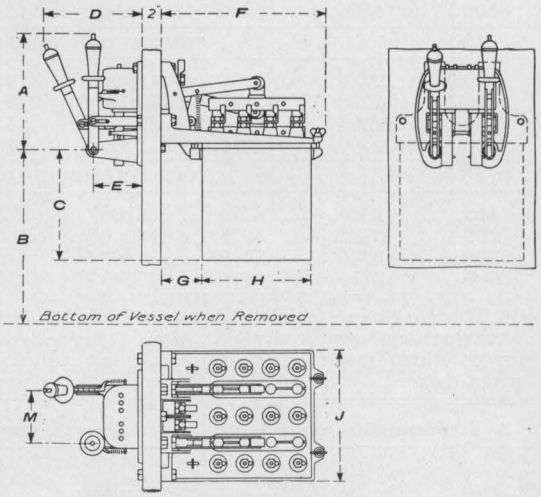
DOUBLE-POLE, SINGLE-THROW SWITCH



DOUBLE-POLE, DOUBLE-THROW SWITCH



TRIPLE AND FOUR-POLE, SINGLE-THROW SWITCH



TRIPLE AND FOUR-POLE, DOUBLE-THROW SWITCH

Poles and Throws	Ampere Capacity	A	B	C	D	E	F	G	H	J	K	L	M
D. P. S. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅜	7¾		4 11/16	
D. P. S. T.	300	14	27¾	13½	10¾	5	18 7/16	6 5/16	10⅞	10⅛		4⅝	
T. P. S. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅜	7¾	9⅜		
T. P. S. T.	300	14	27¾	13½	10¾	5	18⅞	6 5/16	10⅞	10¼	9¼		
4–P. S. T.	100–200	11¾	22⅜	11⅛	10½	5	17	4⅛	11¼	7¾	9⅜		
4–P. S. T.	300	14	27¾	13½	10¾	5	22⅜	6 5/16	14⅜	10¼	9¼		
D. P. D. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅜	13¼			5½
D. P. D. T.	300	14	27¾	13½	10¾	5	18⅞	6 5/16	10⅞	18¼			8
T. P. D. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅜	13¼			5½
T. P. D. T.	300	14	27¾	13½	10¾	5	18⅞	6 5/16	10⅞	18¼			8
4–P. D. T.	100–200	11¾	22⅜	11⅛	10¼	5	17	4⅛	11¼	13¼			5½
4–P. D. T.	300	14	27¼	13½	10¾	5	22⅜	6 5/16	14⅜	18¼			8

OIL BREAK SWITCHES

4500 Volt Type F, Form K-3, Hand Operated, with Overload Release

With ONE Coil for Use in Connection with Current Transformers

Ampere Capacity	Kilowatt Capacity of System with which Switch may safely be used*				Weight in Lbs. (Boxed)	Cat. No.	Refer to Page 239	List Price
	1150 Volts	2300 Volts	3500 Volts	4500 Volts				
DOUBLE-POLE, SINGLE-THROW, SINGLE-PHASE								
100	1760	1600	1500	1425	150	32521	Fig. 1	$110.00
200	1760	1600	1500	1425	150	33876		110.00
300	1875	1785	1650	1575	200	34306		124.00
500	1875	1785	1650	1575	220	34915		132.00
TRIPLE-POLE, SINGLE-THROW, THREE-PHASE								
100	2350	2150	2000	1900	200	32522	Fig. 2	$162.00
200	2350	2150	2000	1900	200	33877		162.00
300	2500	2380	2200	2100	250	34307		178.00
500	2500	2380	2200	2100	275	34916		192.00
FOUR-POLE, SINGLE-THROW, QUARTER-PHASE								
100	3525	3225	3000	2850	225	32523	Fig. 3	$172.00
200	3525	3225	3000	2850	225	33878		172.00
300	3750	3570	3300	3150	290	34308		194.00
500	3750	3570	3300	3150	310	34917		212.00
DOUBLE-POLE, DOUBLE-THROW, SINGLE-PHASE								
100	1760	1600	1500	1425	200	32524	Fig. 1	$136.00
200	1760	1600	1500	1425	200	33879		136.00
300	1875	1780	1650	1575	310	34309		172.00
500	1875	1780	1650	1575	325	34918		186.00
TRIPLE-POLE, DOUBLE-THROW, THREE-PHASE								
100	2350	2150	2000	1900	250	32525	Fig. 2	$193.00
200	2350	2150	2000	1900	250	33880		193.00
300	2500	2350	2200	2100	375	34310		236.00
500	2500	2350	2200	2100	390	34919		256.00
FOUR-POLE, DOUBLE-THROW, QUARTER-PHASE								
100	3525	3225	3000	2850	300	32526	Fig. 3	$210.00
200	3525	3225	3000	2850	300	33881		210.00
300	3750	3570	3300	3150	435	34311		260.00
500	3750	3570	3300	3150	460	34920		298.00

The catalogue numbers for the double-pole switches listed above include one current transformer. Catalogue numbers for triple and four-pole switches include two current transformers. In order to obtain current transformers of a suitable ampere capacity, it will be necessary in every case to specify the transformer desired. The following list gives the transformers that may be used with the several switches:

Ampere Capacity of Switch	Ampere Capacity of Current Transformer	Ratio of Transformation
100	5	1:1
100	10	2:1
100	15	3:1
100	20	4:1
100	30	6:1
100	40	8:1
100	60	12:1
100	80	16:1
100	100	20:1
200	150	30:1
200	200	40:1
300	300	60:1
500	400	80:1
500	600	120:1

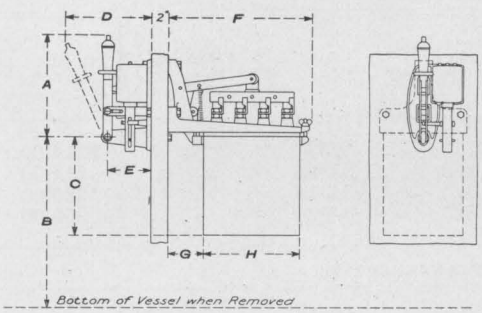
*By the "capacity of system" is meant the total normal kilowatt capacity of all the generators feeding the system to which the switch is connected. This applies to switches used for either generator or feeder circuits.

The above switches are designed for mounting on panels 2″ thick, but may be used on 1½″ panels by inserting the necessary washers between the panel and the switch frame.

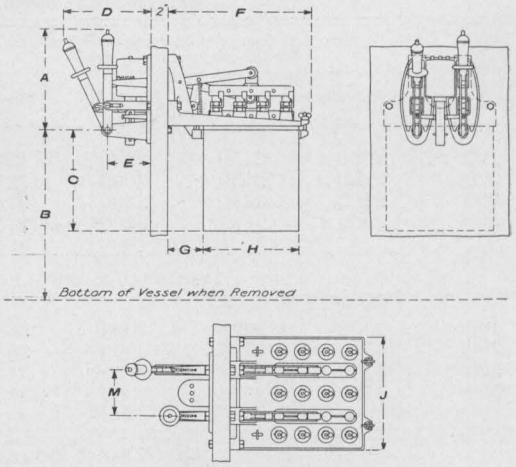
OIL BREAK SWITCHES

4500 Volt Type F, Form K-3, Hand Operated, with Overlaod Release

With ONE Coil for Use in Connection with Current Transformers



SINGLE-THROW SWITCH



DOUBLE-THROW SWITCH

Poles and Throws	Ampere Capacity	A	B	C	D	E	F	G	H	J	L	M
D. P. S. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$7\frac{3}{4}$	$4\frac{11}{16}$	
D. P. S. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$10\frac{1}{4}$	$4\frac{5}{8}$	
T. P. S. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$7\frac{3}{4}$	$4\frac{11}{16}$	
T. P. S. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$10\frac{1}{4}$	$4\frac{5}{8}$	
4-P. S. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	17	$4\frac{1}{8}$	$11\frac{1}{4}$	$7\frac{3}{4}$	$4\frac{11}{16}$	
4-P. S. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$22\frac{3}{8}$	$6\frac{5}{16}$	$14\frac{3}{8}$	$10\frac{1}{4}$	$4\frac{5}{8}$	
D. P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$13\frac{1}{4}$		$5\frac{1}{2}$
D. P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$18\frac{1}{4}$		8
T. P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	$14\frac{3}{16}$	$4\frac{1}{8}$	$8\frac{5}{8}$	$13\frac{1}{4}$		$5\frac{1}{2}$
T. P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$18\frac{7}{8}$	$6\frac{5}{16}$	$10\frac{7}{8}$	$18\frac{1}{4}$		8
4-P. D. T.	100–200	$11\frac{3}{4}$	$22\frac{3}{8}$	$11\frac{1}{8}$	$10\frac{1}{2}$	5	17	$4\frac{1}{8}$	$11\frac{1}{4}$	$13\frac{1}{4}$		$5\frac{1}{2}$
4-P. D. T.	300–500	14	$27\frac{3}{4}$	$13\frac{1}{2}$	$10\frac{3}{4}$	5	$22\frac{3}{8}$	$6\frac{5}{16}$	$14\frac{3}{8}$	$18\frac{1}{4}$		8

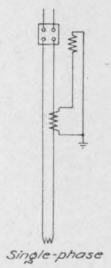


Fig. 1

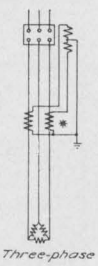


Fig. 2

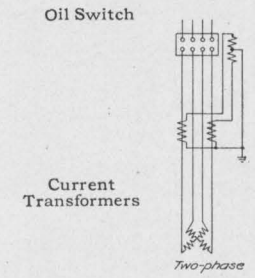


Fig. 3

OIL BREAK SWITCHES

2500 Volt Type F, Form K-3, Hand Operated, with Overload Release

With TWO Coils for Use in Connection with Current Transformers

TRIPLE-POLE, SINGLE-THROW, THREE-PHASE

Ampere Capacity	Kilowatt Capacity of System with which Switch may safely be used*				Weight in Lbs. (Boxed)	Cat. No.	Refer to Page 331	List Price
	1150 Volts	2300 Volts	3500 Volts	4500 Volts				
100	2350	2150	2000	1900	250	32530	Fig. 1	**$214.00**
200	2350	2150	2000	1900	250	33885		**214.00**
300	2500	2380	2200	2100	315	34315		**236.00**
500	2500	2380	2200	2100	325	34924		**250.00**
FOUR-POLE, SINGLE-THROW, QUARTER-PHASE								
100	3500	3225	3000	2850	275	32531	Fig. 2	**$224.00**
200	3500	3225	3000	2850	275	33886		**224.00**
300	3700	3570	3300	3150	350	34316		**252.00**
500	3700	3570	3300	3150	370	34925		**270.00**
TRIPLE-POLE, DOUBLE-THROW, THREE-PHASE								
100	2350	2150	2000	1900	300	32532	Fig. 1	**$248.00**
200	2350	2150	2000	1900	300	33887		**248.00**
300	2500	2350	2200	2100	425	34317		**292.00**
500	2500	2350	2200	2100	430	34926		**312.00**
FOUR-POLE, DOUBLE-THROW, QUARTER-PHASE								
100	3525	3225	3000	2850	350	32533	Fig. 2	**$266.00**
200	3525	3225	3000	2850	350	33888		**266.00**
300	3750	3570	3300	3150	475	34318		**318.00**
500	3750	3570	3300	3150	500	34927		**344.00**

The catalogue numbers of the switches listed above include three current transformers with each switch. These switches should be used on three-phase circuits with grounded neutrals and on two-phase circuits if the phases are interconnected. In every case it will be necessary to specify the transformer desired. The following list gives the transformers that may be used with the several switches:

Ampere Capacity of Switch	Ampere Capacity of Current Transformer	Ratio of Transformation
100	5	1:1
100	10	2:1
100	15	3:1
100	20	4:1
100	30	6:1
100	40	8:1
100	60	12:1
100	80	16:1
100	100	20:1
200	150	30:1
200	200	40:1
300	300	60:1
500	400	80:1
500	600	120:1

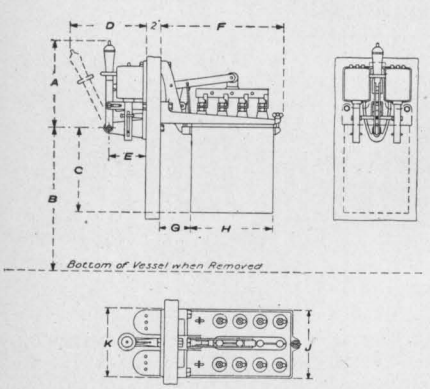
*By the "capacity of system" is meant the total normal kilowatt capacity of all the generators feeding the system to which the switch is connected. This applies to switches used for either generator or feeder circuits.

The above switches are designed for mounting on panels 2″ thick, but may be used on 1½″ panels by inserting the necessary washers between the panel and the switch frame.

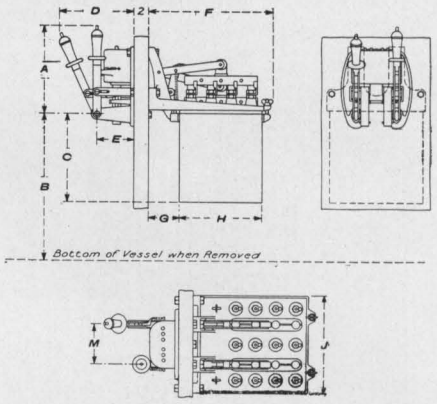
OIL BREAK SWITCHES

4500 Volt Type F, Form K-3, Hand Operated, with Overload Release

With TWO Coils for Use in Connection With Current Transformers



TRIPLE OR FOUR-POLE, SINGLE-THROW SWITCH



TRIPLE OR FOUR-POLE, DOUBLE-THROW SWITCH

Poles and Throws	Ampere Capacity	A	B	C	D	E	F	G	H	J	K	M
T. P. S. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅝	7¼	9⅜	
T. P. S. T.	300–500	14	27¾	13½	10¾	5	18⅝	6 5/16	10⅞	10¼	9¼	
4–P. S. T.	100–200	11¾	22⅜	11⅛	10½	5	17	4⅛	11¼	7¾	9⅜	
4–P. S. T.	300–500	14	27¾	13½	10¾	5	22⅜	6 5/16	14⅜	10¼	9¼	
T. P. D. T.	100–200	11¾	22⅜	11⅛	10½	5	14 3/16	4⅛	8⅝	13¼		5½
T. P. D. T.	300–500	14	27¾	13½	10¾	5	18⅝	6 5/16	10⅞	18¼		8
4–P. D. T.	100–200	11¾	22⅜	11⅛	10½	5	17	4⅛	11¼	13¼		5½
4–P. D. T.	300–500	14	27¾	13½	10¾	5	22⅜	6 5/16	14⅜	18¼		8

Low Voltage Release Attachment For Type F, Form K-3, Oil Switches

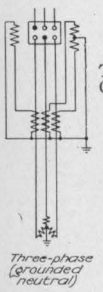


Fig. 1

Voltage of Circuit	Catalogue numbers: For 100 and 200 Amp. Switches — Figs. 1-2-3 page 332 (See Foot-Note A)	For 100 and 200 Amp. Switches — Fig. 4 page 332 (See Foot-Note B)	For 300 and 500 Amp. Switches — Figs. 1-2-3 page 332 (See Foot-Note C)	For 300 and 500 Amp. Switches — Fig. 4 page 332 (See Foot-Note D)	List Price
110	36559	36565	36571	36577	$18.00
220	36560	36566	36572	36578	
440	36561	36567	36573	36690	
550	36562	36568	36574	36691	20.00
1040	44172	44174	44176	44178	
2080	44173	44175	44177	44179	24.00

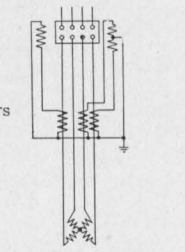


Fig. 2

Low voltage release solenoids are connected across any phase in series with a resistance which is supplied with the attachment.

Note A.—For use with switches: Cat. Nos. 33743, 33889, 33744, 33890, 33747, 33893, 35334, 35336, 32521, 33876, 32522, 33877, 32523, 33878, 32524, 33879, 32525, 33880, 32526, 33881, 32532, 33887, 32533, 33888.

Note B.—For use with switches: Cat. Nos. 33746, 33892, 35333, 35335, 32530, 33885, 32531, 33886.

Note C.—For use with switches: Cat. Nos. 34319, 34320, 34323, 35338, 34306, 34915, 34307, 34916, 34308, 34917, 34309, 34918, 34310, 34919, 34311, 34920, 34317, 34926, 34318, 34927.

Note D.—For use with switches: Cat. Nos. 34322, 35337, 34315, 34924, 34316, 34925.

It will be noted that the above attachments are not listed for switches without overload release.

OIL BREAK SWITCHES

Low Voltage Release Attachments

For Type F, Form K-3, Oil Switches

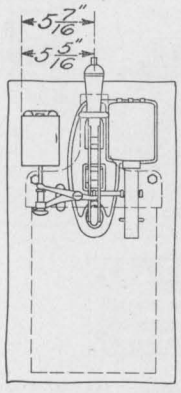


Fig. 1

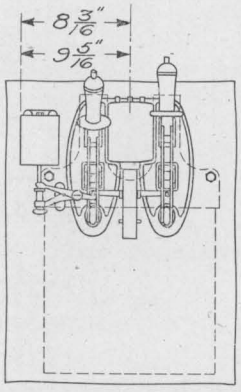


Fig. 2

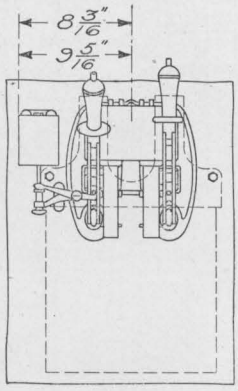


Fig. 3

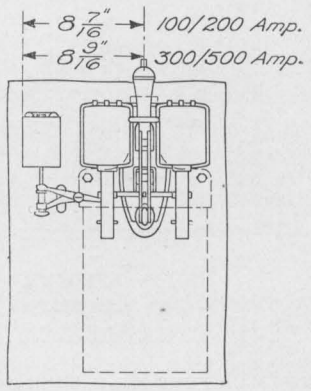
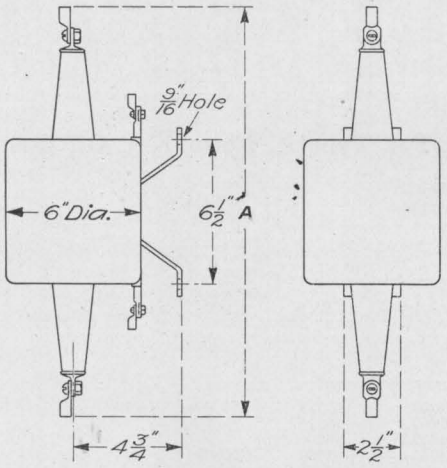


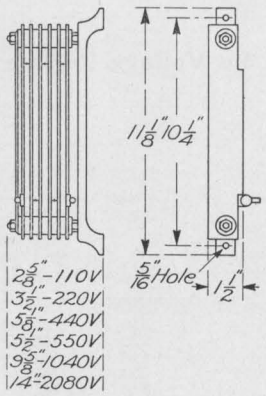
Fig. 4

DIMENSIONS OF CURRENT TRANSFORMERS



Max. Amp.	10/100	150/200	300	400	500	600	800
Nor. Amp.	7.5/75	100/150	200	250	300	400	500
A	19	22 3/4	23	24 1/4	26	28 5/16	31 1/2

RESISTANCES FOR USE WITH LOW VOLTAGE RELEASE COILS

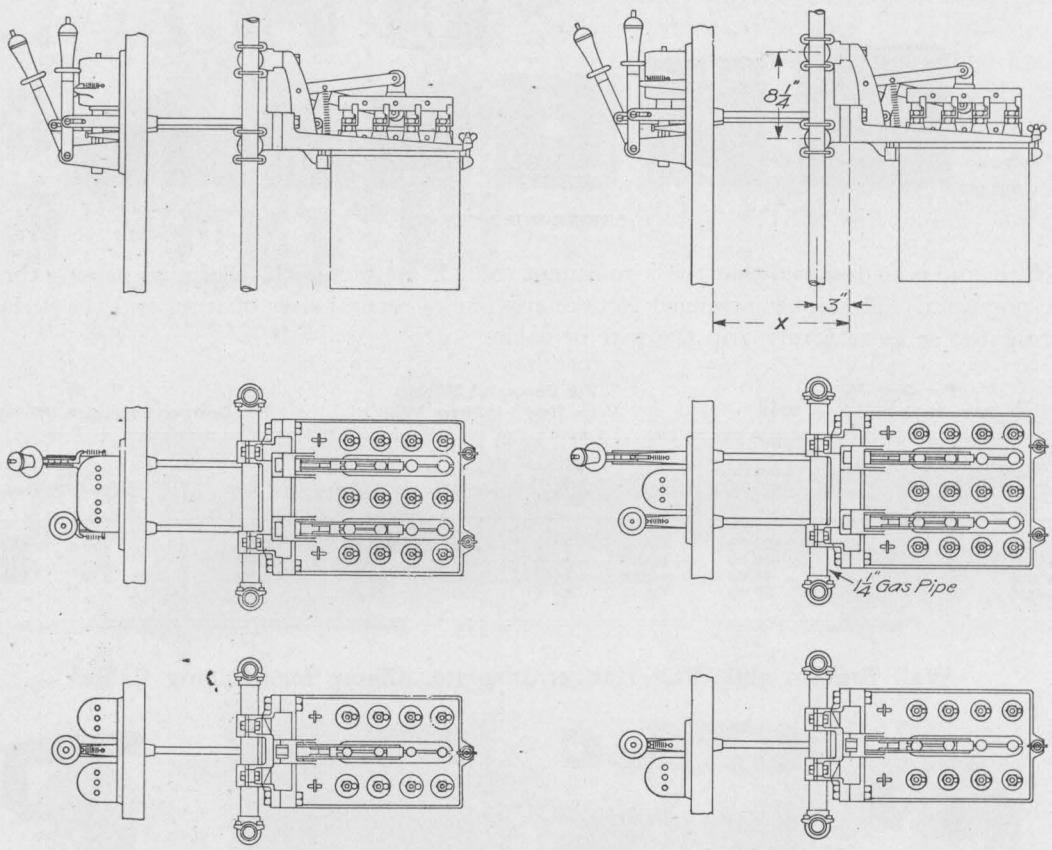


Low voltage coils for 1040 and 2080 volt circuits will consume considerably less energy if connected to potential transformer secondaries. Transformer Cat. No. 34157, having 110 volt secondary, may be ordered for either 1040 or 2080 volt circuits, in which case the release listed for 110 volt circuit should be ordered.

OIL BREAK SWITCHES

Extension Links and Base Castings

For Mounting Type F, Form K-3, Oil Switches on Pipe Supports Back of the Panel



Amperes	For Double, Triple, and Four-Pole Switches	Cat. No.	List Price
100 and 200	Single-throw, without release mechanism .	35340	$10.00
300 and 500	Single-throw, without release mechanism .	35346	14.00
100 and 200	Single-throw, with release mechanism .	35341	10.00
300 and 500	Single-throw, with release mechanism .	35347	14.00
100 and 200	Double-throw, without release mechanism	35342	14.00
300 and 500	Double-throw, without release mechanism	35348	18.00
100 and 200	Double-throw, with release mechanism .	35343	14.00
300 and 500	Double-throw, with release mechanism .	35349	18.00

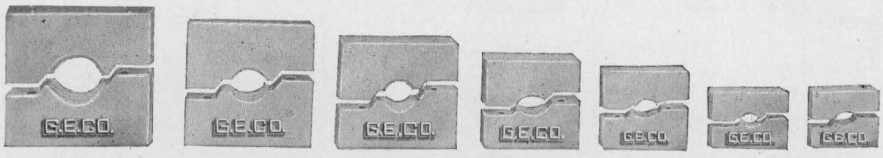
Always give dimensions X when ordering.

Pipe supports are not included. Base casting is designed to fit standard $1\frac{1}{4}$" (nominal diameter) pipe.

GE PORCELAIN SPECIALTIES

GE Single-Wire Porcelain Cleats

These cleats are intended for the support of wires and cables larger than can be accommodated in porcelain knobs and two-wire or three-wire cleats. Each cleat has ample leakage

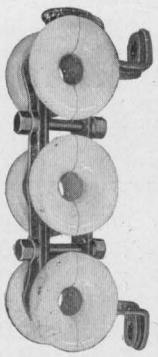


SINGLE-WIRE CLEATS

surface, and is so designed that the wire cannot come in contact with the screws passing through the porcelain. The slot is arranged to take any one of several sizes of wire, and the surface is corrugated so as to firmly grip the wire or cable.

For Open Wiring Wire Held ½ in. from Wall				For Concealed Wiring Wire Held 1 in. from Wall				For Open or Concealed Wiring			
Cat. No.	Dia. of Cable Hole in Ins.	Package Quantity	List Price per 1000	Cat. No.	Dia. of Cable Hole in Ins.	Package Quantity	List Price per 1000	Cat. No.	Dia. of Cable Hole	Package Quantity	List Price per 1000
43283	$\frac{1}{8}-\frac{3}{8}$	250	**$26.68**	44836	$\frac{1}{8}-\frac{3}{8}$	250	**$36.68**	43287	$\frac{7}{16}-\frac{3}{4}$	250	**$80.00**
43284	$\frac{5}{16}-\frac{1}{16}$	250	**40.00**	44837	$\frac{5}{16}-\frac{1}{16}$	250	**50.00**	43288	$\frac{1}{2}-1$	250	**120.00**
43285	$\frac{1}{4}-\frac{1}{2}$	250	**48.00**	44838	$\frac{1}{4}-\frac{1}{2}$	250	**60.00**	43289	$\frac{7}{8}-1\frac{3}{8}$	250	**160.00**
43286	$\frac{5}{16}-\frac{5}{8}$	250	**60.00**	44839	$\frac{5}{16}-\frac{5}{8}$	250	**72.00**				

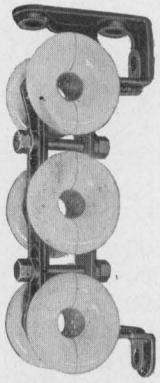
Wall Bracket and Wall Hanger Insulator Clamp for Holding Cables



WALL BRACKET CLAMP AND INSULATORS



PORCELAIN INSULATOR

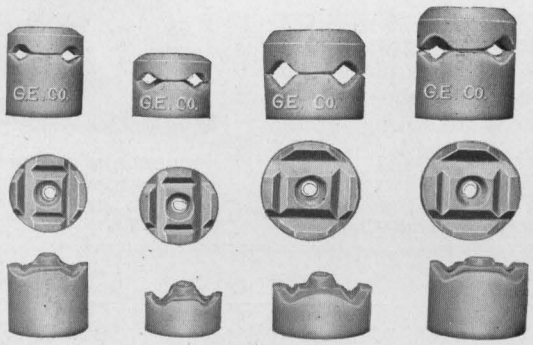


WALL HANGER CLAMP AND INSULATORS

Cat. No.	Description	Package Quantity	List Price Each
11473	Wall bracket insulator clamp, for three 1¼″ cables, complete with clamping cap. (Does not include insulators).	10	**$2.50**
11474	Wall hanger insulator clamp, for three 1¼″ cables, complete with clamping cap. (Does not include insulators).	10	**2.50**
11475	Porcelain insulator, for above, with 1¼″ hole for cable. (Includes two halves)	100	**.50**

GE PORCELAIN SPECIALTIES

Porcelain Knobs



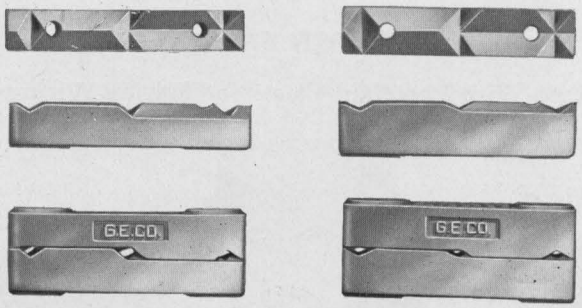
PORCELAIN KNOBS

GE Porcelain Knobs are designed for supporting single conductors, each knob being formed with slots to accommodate any one of four sizes of wire. The knobs are made in two depths, those with the deep back being intended for concealed house wiring, and each style is made in two sizes, the larger of which is suitable for wire up to $\frac{5}{8}$" and the smaller for wire up to $\frac{3}{8}$" in diameter.

Order by the package if possible.

Cat. No.	Description	Package Quantity	List Price per 1000
9419	Complete knob, for single wire up to $\frac{3}{8}$" diameter, holding wire 1" from wall	500	**$32.50**
9420	Complete knob, for single wire up to $\frac{5}{8}$" diameter, holding wire 1" from wall	500	**45.00**
9352	Complete knob, for single wire up to $\frac{3}{8}$" diameter, holding wire $\frac{9}{16}$" from wall	500	**28.00**
6580	Complete knob, for single wire up to $\frac{5}{8}$" diameter, holding wire $\frac{9}{16}$" from wall	500	**45.00**

Two-Wire and Three-Wire Porcelain Cleats



PORCELAIN CLEATS

The top and bottom pieces of the GE cleats are exactly alike. The groove for the wire in Cat. No. 25704 is of such shape as to accommodate wires up to No. 12 B. & S. For wires above No. 12 B. & S., Cat. No. 9172 should be ordered.

Order by the package if possible.

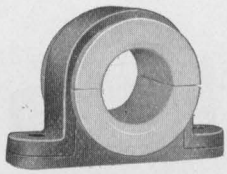
Cat. No.	Description	Package Quantity	List Price per 1000
9172	Two-wire and three-wire GE cleat, complete (two pieces) glazed	1000	**$32.00**
9172	Two-wire and three-wire GE cleat, complete (two pieces) unglazed	1000	**25.00**
25704	Two-wire and three-wire GE cleat, complete (two pieces) glazed	1000	**26.00**
25704	Two-wire and three-wire GE cleat, complete (two pieces) unglazed	1000	**20.00**

GE PORCELAIN SPECIALTIES

Porcelain Clamp Insulators

The Porcelain Clamp Insulator consists of a cast iron seat, a cast iron strap, and a split porcelain bushing. The iron seat can be attached to any support before clamping the cable in place, thus giving the wireman the use of both hands while inserting the cable.

The General Electric Company's Clamp Insulators are strong enough to support the heaviest cable, and can be furnished for cables from $\frac{5}{16}$″ to 2″ in diameter.



PORCELAIN CLAMP INSULATOR (TWO PIECES)

Two-Piece Clamp Insulators, without Clamp

Cat. No.	Description	Pkge Quan.	List Price Per 100	Cat. No.	Description	Pkge Quan.	List Price Per 100
9214	$\frac{5}{16}$″ hole	100	$5.00	9230	$1\frac{1}{8}$″ hole	100	$8.50
9215	$\frac{3}{8}$″ hole	100	5.00	9236	$1\frac{1}{4}$″ hole	100	11.00
9216	$\frac{1}{2}$″ hole	100	5.00	9237	$1\frac{3}{8}$″ hole	100	11.00
9221	$\frac{5}{8}$″ hole	100	6.50	9238	$1\frac{1}{2}$″ hole	100	11.00
9222	$\frac{3}{4}$″ hole	100	6.50	9243	$1\frac{3}{4}$″ hole	100	17.50
9228	$\frac{7}{8}$″ hole	100	8.50	9244	2″ hole	100	17.50
9229	1″ hole	100	8.50				

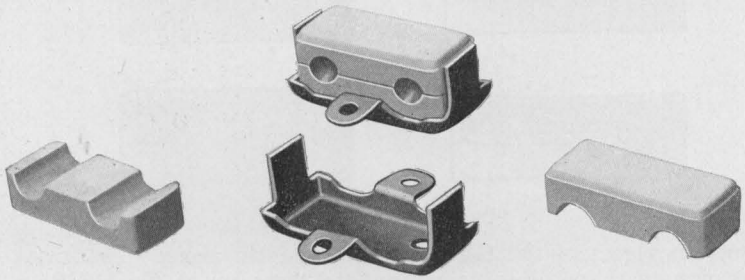
Iron Clamps, Complete, for Insulators

9499	For Nos. 9214, 9215, 9216	100	$25.00	*22718	Nos. 9214, 9215, 9216	100	$90.00
9498	For Nos. 9221, 9222	100	27.50	*22750	For Nos. 9221, 9222	100	100.00
9361	For Nos. 9228, 9229, 9230	100	35.00	*22751	For Nos. 9228, 9229, 9230	100	165.00
9360	For Nos. 9236, 9237, 9238	100	45.00	*22752	For Nos. 9236, 9237, 9238	100	175.00
9359	For Nos. 9243, 9244	100	50.00	*22753	For Nos. 9243, 9244	100	185.00

*These differ from clamps, Cat. Nos. 9359, 9360, 9361, 9498 and 9499, in that the straps are composition metal instead of cast iron.

GE PORCELAIN SPECIALTIES

Two-Wire Porcelain Cleats for Marine Wiring



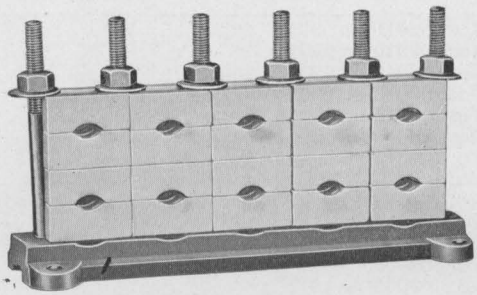
TWO-WIRE CLEAT AND CAPS

Cat. No.	Description	Package Quantity	List Price Each
10943	With $\frac{19}{32}$″ maximum, $\frac{13}{32}$″ minimum hole for cable. (Includes two halves)	250	$0.08
10944	With $\frac{15}{32}$″ maximum, $\frac{9}{32}$″ minimum hole for cable. (Includes two halves)	250	.08
10945	Brass cap for cleats	250	.12

GE PORCELAIN SPECIALTIES

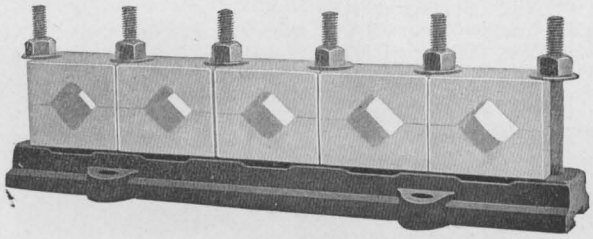
Rack Insulators, Form B

Form B Rack Insulators are the most compact and secure devices for supporting and insulating cables or bus-bars in stations, conduits, subways, etc.



Rack, Cat. No. 36302; Insulators, Cat. No. 69010

The complete device consists of a cast iron rack with wrought iron pins and nuts, with porcelain pieces suitably grooved to clamp the cable or bus-bar. The porcelain pieces are of ample strength to withstand the strain of clamping and are so designed that they hold the cables



ONE TIER RACK INSULATORS FOR BUS-BARS
Rack, Cat. No. 69014; Insulators, Cat. No. 69011

firmly in place. Several different sizes of cable may be used with the same insulator and the shape of the porcelain pieces also accommodates itself to any slight variation in either the insulator or the cable. Sections of the insulator may be removed without interfering with the remaining parts.

The device combines perfect insulation with security and convenience.

Porcelain Rack Insulators

Cat. No.	Description	Standard Package	List Price, Each
69009	For ½″ to 1″ cable	100	$0.15
69010	For 1″ to 2″ cable	100	.25
69011	For bus-bars (used with racks Cat. Nos. 69012, 69013, 51886, 69014, 33749, 69015, 36299, 36300, 36301, 36302, 36303, and 36304, for bus-bars up to 2″ x ½″; and with racks, Cat. Nos. 69016, 69017, 51887, 69018, 69019, 36305, 36306, 36307, 36308, and 36309, for bus-bars up to 2½″ x 1″)	100	.30

The catalogue number for porcelain insulator includes two halves.

GE PORCELAIN SPECIALTIES

Insulator Racks

FOR ONE TIER OF INSULATORS

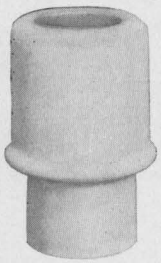
Cat. No.	Description	List Price
69012	For 12, Cat. Nos. 69010 or 69011	$5.50
69013	For 8, Cat. Nos. 69010 or 69011	4.00
51886	For 6, Cat. Nos. 69010 or 69011	3.75
69014	For 5, Cat. Nos. 69010 or 69011	2.65
33749	For 4, Cat. Nos. 69010 or 69011	2.25
69015	For 3, Cat. Nos. 69010 or 69011	1.80
69016	For 12, Cat. No. 69011	5.65
69017	For 8, Cat. No. 69011	4.00
51887	For 6, Cat. No. 69011	3.75
69018	For 5, Cat. No. 69011	2.65
69019	For 3, Cat. No. 69011	1.80
69020	For 12, Cat. No. 69009	4.00
69021	For 8, Cat. No. 69009	2.60
51888	For 6, Cat. No. 69009	2.00
69022	For 5, Cat. No. 69009	1.60
69023	For 3, Cat. No. 69009	1.25

FOR TWO TIERS OF INSULATORS

36299	For 24, Cat. Nos. 69010 or 69011	$5.85
36300	For 16, Cat. Nos. 69010 or 69011	4.25
36301	For 12, Cat. Nos. 69010 or 69011	4.00
36302	For 10, Cat. Nos. 69010 or 69011	2.75
36303	For 8, Cat. Nos. 69010 or 69011	2.30
36304	For 6, Cat. Nos. 69010 or 69011	1.90
36305	For 24, Cat. No. 69011	6.00
36306	For 16, Cat. No. 69011	4.25
36307	For 12, Cat. No. 69011	4.00
36308	For 10, Cat. No. 69011	2.75
36309	For 6, Cat. No. 69011	1.90
36294	For 24, Cat. No. 69009	4.25
36295	For 16, Cat. No. 69009	2.75
36296	For 12, Cat. No. 69009	2.25
36297	For 10, Cat. No. 69009	1.75
36298	For 6, Cat. No. 69009	1.30

An assortment of **ten** of the above racks will constitute a standard package.

Porcelain Floor Insulators



Cat. No. 16822

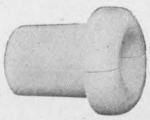


Cat. No. 9327

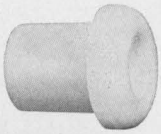
Cat. No.	Dimensions in Inches			Package Quantity	List Price per 100
	Diameter Hole	Diameter Shank	Length Under Head		
9327	$\frac{5}{8}$	$1\frac{3}{8}$	$3\frac{3}{4}$	100	$15.00
16824	$1\frac{1}{2}$	$3\frac{3}{4}$	3	22	125.00
16823	$1\frac{3}{4}$	$3\frac{3}{4}$	3	30	120.00
16822	$2\frac{1}{4}$	$3\frac{3}{4}$	3	25	115.00

GE PORCELAIN SPECIALTIES

Porcelain Wall Insulators



Cat. No. 16819



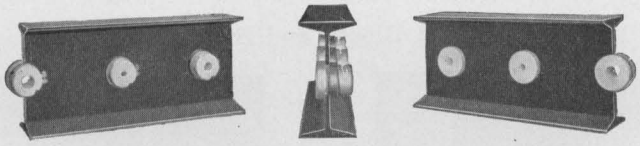
Cat. No. 16818

*Cat. No.	Description	Package Quantity	List Price per 100	*Cat. No.	Description	Package Quantity	List Price per 100
16821	Split $1\frac{1}{2}$″ hole	50	**$45.00**	16820	Solid $1\frac{1}{2}$″ hole	45	**$50.00**
16819	Split $1\frac{3}{4}$″ hole	50	**45.00**	16818	Solid $1\frac{3}{4}$″ hole	50	**50.00**
16817	Split $2\frac{1}{4}$″ hole	40	**50.00**	16816	Solid $2\frac{1}{4}$″ hole	40	**55.00**

*Length is 4″ under head, and diameter of shank is $3\frac{3}{4}$″ in all sizes.

I Beam Insulators

The insulators illustrated below have been designed particularly for insulating cables which pass through I or deck beams. The insulator consists of a porcelain bushing, well proportioned with regard to strength and leakage surface, and a composition clamp which threads on the bushing, and holds tightly against the beam, thus preventing the insulator from working loose and slipping out. The clamp is held in position by means of a clamping screw. The beams can be drilled before being installed and the insulator put in place and the cables drawn in after the beams are placed in position.



AN I BEAM SECTION WITH INSULATORS IN PLACE

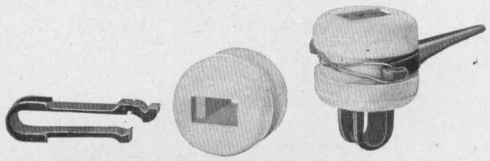
Cat. No	Dimensions in Inches			Package Quantity	List Price per 100
	Diameter		Under Head		
	Hole	Shank			
21669	$\frac{1}{2}$″	$2\frac{1}{16}$″	$1\frac{3}{4}$″	100	**$12.50**
21670	$\frac{3}{4}$″	$2\frac{1}{16}$″	$1\frac{3}{4}$″	100	**12.50**
21671	1 ″	$2\frac{1}{16}$″	$1\frac{3}{4}$″	100	**12.50**
21672	$1\frac{1}{4}$″	$3\frac{1}{16}$″	2 ″	100	**30.00**
21673	$1\frac{1}{2}$″	$3\frac{1}{16}$″	2 ″	100	**30.00**
21674	$1\frac{3}{4}$″	$3\frac{1}{16}$″	2 ″	100	**30.00**
21675	2 ″	$3\frac{1}{16}$″	2 ″	100	**30.00**

Clamping Ring with Screw

Cat. No.	Description	Package Quantity	List Price per 100
21676	For Cat. Nos. 21669, 21670, 21671 . . .	100	**$25.00**
21677	For Cat. Nos. 21672, 21673, 21674, 21675 .	100	**27.50**

GE PORCELAIN SPECIALTIES

Porcelain Tree Insulators

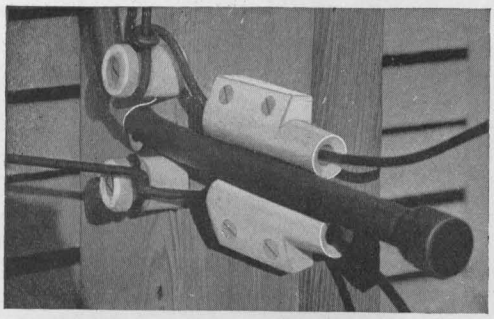


INSULATOR, YOKE AND CAM, AND SUPPORTING PRONG

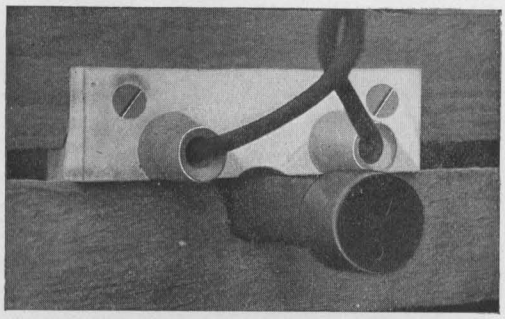
This insulator was designed primarily for use in tree wiring, but will be found suitable for many other purposes. It is often desirable to shift the wires, or change a line without removing the insulators, and to such cases the Tree Insulator will be found to readily adapt itself. The loop which holds the wire is finished smooth on the inside so as not to injure the insulation, and will permit the wire to slip easily back and forth as the tree sways. When installing, the wire is simply dropped into the iron loop which is then pushed lengthwise through the porcelain insulator and the cam lock snapped into position. To remove the iron loop, a screw-driver is inserted in the slot in the cam lock, and the cam pried open. This insulator will be found a convenient device for temporary testing circuits, where the wires have, necessarily, to be strung repeatedly.

Cat. No.	Description	Package Quantity	List Price Each
69024	Porcelain insulator with yoke and cam	100	**$0.75**
69025	Porcelain insulator only	100	**.25**
69026	Supporting prong only—not included in Cat. No. 69024	100	**.06**

Outlet Blocks and Bushings



THE OUTLET BUSHING IN PLACE



THE OUTLET BLOCK IN PLACE

For outlet work in buildings equipped with both electric and gas lighting systems the General Electric Company has developed a Porcelain Outlet Block and Outlet Bushing, which have many advantages. The Outlet Block is so shaped that it is easily placed between laths, and when in position the semicircular recess fits the pipe, while the flanges engage the laths. The block is held by screws or nails, though without these misplacement is practically impossible. The Outlet Bushing, like the Outlet Block, is made of the best china clay, is heavy, strong and non-absorbent. When once in position it is perfectly rigid, there being no danger of misplacement.

Length over all, $3\frac{3}{4}$″; inside diameter, $\frac{3}{8}$″; outside diameter, $\frac{3}{4}$″.

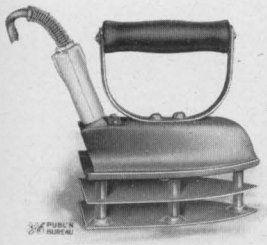
Cat. No.	Description	Package Quantity	List Price per 100
10941	Outlet bushing	100	**$5.00**
10942	Outlet block	100	**6.00**

ELECTRIC HEATING DEVICES

The General Electric Company has added to its other supplies a line of heating devices which will form an exceedingly useful adjunct to the furnishing of the home, or the equipment of hotels, hospitals, shops, etc.

A detailed description of these devices is contained in the Company's Bulletin on this subject which will be gladly forwarded upon request.

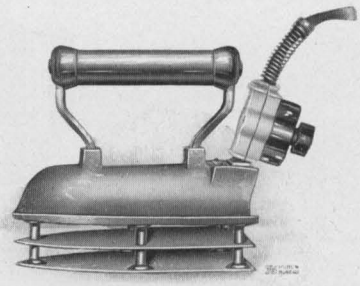
ELECTRIC FLAT IRONS



3-LB. IRON



6-LB. IRON WITH PLAIN ATTACHING PLUG



6-LB. IRON WITH INDICATING SWITCH

Three-Pound Flat Iron Nickel Finish.

The 3-lb. iron may be attached to any lighting socket and is useful for light laundry purposes or the sewing room.

Cat. No.	Watts	Volts	List Price	Cat. No.	Watts	Volts	List Price
38123	250	95–105	**$8.00**	38125	250	116–125	**$8.00**
38124	250	106–115	**8.00**				

Six-Pound Flat Iron

The 6-lb. iron is intended for general laundry use and the heavy work of the household.

*ALUMINUM FINISH				†NICKEL FINISH			
36814	500	95–105	**$8.50**	45415	500	95–105	**$9.75**
36815	500	106–115	**8.50**	45417	500	106–115	**9.75**
36816	500	116–125	**8.50**	45417	500	116–125	**9.75**
40806	500	200–225	**9.50**	45418	500	200–225	**10.75**
43481	500	226–250	**9.50**	45419	500	226–250	**10.75**

*When equipped with combination indicating switch, Cat. No. 42441, additional $1.00 list.
†Prices include combination indicating switch, Cat. No. 42441.

*Eight-Pound Flat Iron Aluminum Finish

The 8-lb. iron is for use on very heavy or wet goods.

39921	600	95–105	**$10.00**	40805	600	200–225	**$11.00**
39922	600	106–115	**10.00**	43482	600	226–250	**11.00**
39923	600	116–125	**10.00**				

*When equipped with combination indicating switch. Cat. No. 42441, additional $1.00 list.

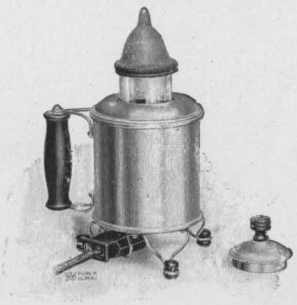
Cartridge units for 220 volt irons	**$3.00** each. List.
Cartridge units for irons of other voltages	**2.50** each. List.
Cat. No. 42441 combination plug and indicating switch, with 8 feet of cable and socket attaching plug	**4.00** each. List.
Cat. No. 42442 attachment plug complete with 8 feet of cable and attaching plug	**3.00** each. List.

COMBINATION LIQUID HEATERS

These heaters were designed expressly for household use, but are suitable also for hospitals, and physicians' or dentists' offices. Each heater with its attachments is a water heater, an egg boiler, a baby milk warmer, a cereal cooker (double boiler), a food warmer, a vegetable steamer, or an instrument sterilizer. These heaters have polished aluminum finish.

One Pint—Single Heat

Without Auxiliary Parts



Arranged for Use as a Baby Milk Warmer

One Quart—Single Heat

With Auxiliary Parts



Arranged for Use as a Double Boiler

Cat. No.	Watts	Volts	List Price
42654	300	95–105	**$8.50**
42655	300	106–115	**8.50**
39518	300	116–125	**8.50**
42384	300	200–225	**8.50**
42385	300	226–250	**8.50**

Cat. No.	Watts	Volts	List Price
42865	500	95–105	**$12.00**
42866	500	106–115	**12.00**
41239	500	116–125	**12.00**
43275	500	200–225	**12.00**
43276	500	226–250	**12.00**

One Quart—Single Heat

Without Auxiliary Parts



Arranged for Use as a Simple Liquid Heater

Two Quarts—Two and Three Heats

With Auxiliary Parts



Arranged for Use as a Double Boiler

Cat. No. 300 Watts	Cat. No. 500 Watts	Volts	List Price 300 Watts	List Price 500 Watts
42656	42659	95–105	**$10.00**	**$10.00**
42657	42660	106–115	**10.00**	**10.00**
42658	39519	116–125	**10.00**	**10.00**
43269	42386	200–225	**10.00**	**10.00**
43270	42387	226–250	**10.00**	**10.00**

Cat. No.	Watts Low	Watts Medium	Watts High	Volts	*List Price
47109	200		575	95–105	**$18.50**
47110	200		575	106–115	**18.50**
47111	200		575	116–125	**18.50**
47112	200		575	200–225	**18.50**
47113	200		575	226–250	**18.50**
*42863	275	525	1000	95–105	**21.50**
*42864	275	525	1000	106–115	**21.50**
*39759	275	525	1000	116–125	**21.50**
*43277	275	525	1000	200–225	**21.50**
*43278	275	525	1000	226–250	**21.50**

*Includes the 3-heat switch.

COMBINATION LIQUID HEATERS

FOUR QUARTS—THREE HEATS

Cat. No.	Watts			Volts	List Price
	Low	Medium	High		
45299	300	575	1050	95–105	**$21.50**
45300	300	575	1050	106–115	**21.50**
45301	300	575	1050	116–125	**21.50**
45302	300	575	1050	200–225	**21.50**
45303	300	575	1050	226–250	**21.50**

SIX QUARTS—THREE HEATS

Cat. No.	Watts			Volts	List Price
	Low	Medium	High		
45304	350	675	1300	95–105	**$29.50**
45305	350	675	1300	106–115	**29.50**
45306	350	675	1300	116–125	**29.50**
45307	350	675	1300	200–225	**29.50**
45308	350	675	1300	226–250	**29.50**

TEA KETTLE



Made of Copper, with Nickel Finish

Cat. No.	Quarts Capacity	Watts	Volts	List Price
45274	2	160– 575	95–105	**$12.75**
45275	2	160– 575	106–115	**12.75**
45276	2	160– 575	116–125	**12.75**
45277	2	160– 575	200–225	**12.75**
45278	2	160– 575	226–250	**12.75**
45279	4	*300–1050	95–105	**16.00**
45280	4	*300–1050	106–115	**16.00**
45281	4	*300–1050	116–125	**16.00**
45282	4	*300–1050	200–225	**16.00**
45283	4	*300–1050	226–250	**16.00**

*Low, 300; Medium, 575; High, 1050.

COFFEE PERCOLATOR

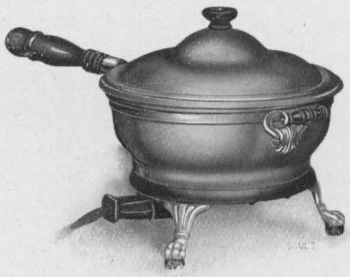
Polished Aluminum Finish. Capacity, 3 Pints



Cat. No.	Watts	Volts	List Price
42665	300	95–105	**$20.00**
42666	300	106–115	**20.00**
42667	300	116–125	**20.00**
43279	300	200–225	**20.00**
43280	300	226–250	**20.00**
42668	500	95–105	**20.00**
42669	500	106–115	**20.00**
39744	500	116–125	**20.00**
42390	500	200–225	**20.00**
42391	500	226–250	**20.00**

CHAFING DISH

With Quartz Enamel Heating Unit



TWO HEATS
Polished Aluminum Finish

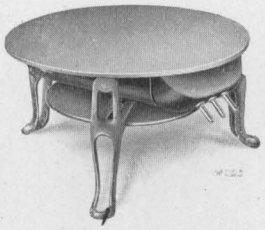
Cat. No.	Watts		Volts	List Price
	Low Heat	High Heat		
42670	220	575	95–105	$18.00
42671	220	575	106–115	18.00
39520	220	575	116–125	18.00
42392	220	575	200–225	18.00
42393	220	575	226–250	18.00

DINING ROOM SET



An attractive combination of lighting circuit devices is shown in the accompanying illustration. It is known as a Dining Room or a Breakfast Set and consists of a percolator, chafing dish and toaster or small stove similar to the disc stoves described later, excepting that the heating element is of the quartz enamel type The pieces are of harmonious design and make a most pleasing and serviceable holiday or wedding gift.

DISC STOVES
Cartridge Unit Type



CAST IRON STOVE

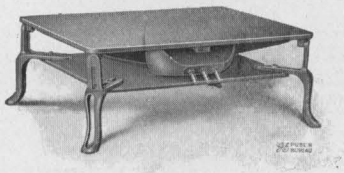


ORNAMENTAL TYPE

Cat. No.	Dia. in Inches	Watts	Heats	Volts	List Price
38651	6	600	1	95–125	$ 8.00
43483	6	600	1	200–225	9.00
43484	6	600	1	226–250	9.00
§45032	7	220– 575	2	95–105	11.00
§45033	7	220– 575	2	106–115	11.00
§45034	7	220– 575	2	116–125	11.00
§45035	7	220– 575	2	200–225	11.00
§45036	7	220– 575	2	226–250	11.00
40811	8	*225– 900	3	95–105	16.50
38652	8	*225– 900	3	106–115	16.50
40812	8	*225– 900	3	116–125	16 50
43485	8	*225– 900	3	200–225	18 50
43486	8	*225– 900	3	226–250	18.50
40813	10	†400–1200	3	95–105	21.50
38653	10	†400–1200	3	106–115	21.50
40814	10	†400–1200	3	116–125	21.50
43487	10	†400–1200	3	200–225	24.50
43488	10	†400–1200	3	226–250	24.50

*Low, 225; Medium, 450; High, 900. †Low, 400; Medium, 800; High, 1200. §Ornamental Type, Quartz Enamel Unit.

GRIDS—THREE HEATS



GRID

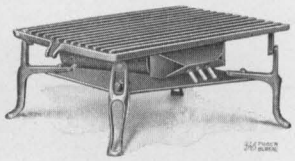
These grids have an aluminum finish which prevents anything adhering to them

Cat. No.	Size in Inches	Watts	Volts	List Price
40328	9 x 12	‡225–900	95–105	$24.00
40329	9 x 12	‡225–900	106–115	24.00
40330	9 x 12	‡225–900	116–125	24 00
43491	9 x 12	‡225–900	200–225	26.00
43492	9 x 12	‡225–900	226–250	26.00

‡Low, 225; Medium, 450; High, 900.

BROILERS—THREE HEATS

Made of cast iron, with machine finished top and aluminum finished standard.



ELECTRIC BROILER

Cat. No.	†Watts	Volts	List Price
40815	400–1200	95–105	$22.00
38654	400–1200	106–115	22.00
40816	400–1200	116–125	22.00
43489	400–1200	200–225	25.00
43490	400–1200	226–250	25.00

†Low, 400; Medium, 800; High, 1200.

FRYING PANS



10-INCH PAN 7-INCH PAN

5-INCH PAN

Cat. No.	Volts	Watts	List Price
42672	95–105	500	$10.50
42673	106–115	500	10.50
39521	116–125	500	10.50
42394	200–225	500	10.50
42395	226–250	500	10.50
7-INCH PAN			
42674	95–105	220–575	$12.00
42675	106–115	220–575	12.00
39522	116–125	220–575	12.00
42396	200–225	220–575	12.00
42397	226–250	220–575	12.00
10-INCH PAN			
42676	95–105	350–675–1300	$20.00
42677	106–115	350–675–1300	20.00
39745	116–125	350–675–1300	20.00
43281	200–225	350–675–1300	20.00
43282	226–250	350–675–1300	20.00

COOKING OUTFITS



FORM 1 OUTFIT

The Form 1 Outfit is composed of the following:

Form 1 Table. Coffee Percolator.
Broiler. Grid.
Oven. 7-inch Frying Pan.
2-qt. Combination Cooker.
2-qt. Tea Kettle.
Price, $65.00, net, f.o.b. factory.

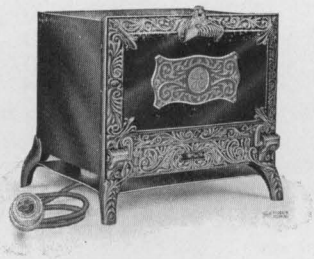


FORM 2 OUTFIT

The Form 2 Outfit is composed of the following:

Form 2 Table. Coffee Percolator.
Broiler. Grid.
Oven. 10-inch Frying Pan.
2-qt. Combination Cooker.
4-qt. Combination Cooker. 4-qt. Tea Kettle.
Price, $85.00, net, f.o.b. factory.

BAKING OVENS



BAKING OVEN

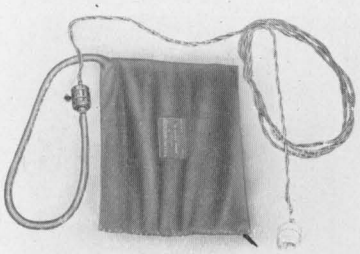
The electric oven does not sensibly increase the temperature of the room. The heat can be regulated perfectly and the time taken for ordinary baking will be found to be about the same as with coal or gas but with better heat efficiency.

The inside of the oven is 18 in. wide, 16½ in. high, and 14½ in. deep. The oven weighs 63 lbs., net.

Baking Oven—Three Heats

Cat. No.	Watts	Volts	List Price
40446	500–1500	95–105	**$50.00**
40447	500–1500	106–115	**50.00**
40448	500–1500	116–125	**50.00**
43493	500–1500	200–225	**54.00**
43494	500–1500	226–250	**54.00**

HEATING PAD



This device is more than a substitute for the hot water bottle. It is always ready, maintains any one of three temperatures which may be determined by a three-point regulating switch, and weighs only 11 oz. The regular pad is furnished with a washable slip, but a special waterproof style can be furnished on order. The pad takes no more current than an ordinary incandescent lamp.

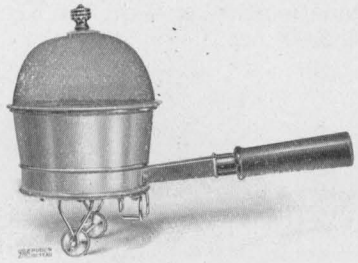
Cat. No.	Watts	Volts	Size
40800	55	105–125	11″ x 15″ x ¼″

SHAVING MUG

Cat. No.	Watts	Volts	List Price
44303	150	105–125	**$3.50**
45026	150	225–250	**3.50**



CORN POPPER



Cat. No.	Watts	Volts	List Price
45027	300	95–105	**$10.00**
45028	300	106–115	**10.00**
45029	300	116–125	**10.00**
45030	300	200–225	**10.00**
45031	300	226–250	**10.00**

AIR HEATERS

These heaters are of the cartridge unit type and are adapted to continuous service. They may be used with radiator bulbs in place of the cartridge units for intermittent service if desired.

Cat. No		Watts Consumed	Volts	Cartridge Unit Type	Lamp Unit Type
Cartridge Unit Type	Lamp Unit Type				
42870	42875	2000	95–105	**$40.00**	**$37.00**
42871	42876	2000	106–115	**40.00**	**37.00**
42872	41038	2000	116–125	**40.00**	**37.00**
43506	43507	2000	200–225	**40.00**	**37.00**
42873	41039	2000	226–250	**40.00**	**37.00**
42874	41040	2000	500	**40.00**	**37.00**



2000-WATT AIR HEATER

LUMINOUS RADIATOR

The Luminous Radiator gives quick local heat and is especially advantageous in taking the chill out of bath rooms, dining rooms, etc.; it is not intended for continuous use. It is furnished complete with thin frosted globes.



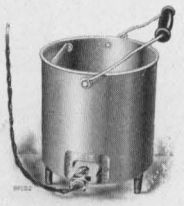
LUMINOUS RADIATOR

Cat. No. Flat Top	Finish	Watts per Lamp	Total Watts	Volts	List Price	Cat. No. Flat Top	Finish	Watts per Lamp	Total Watts	Volts	List Price
42176	Ox. Copper	250	750	95–105	**$26.00**	42180	Ox. Copper	500	1500	95–105	**$27.50**
42176	Nickel	250	750	95–105	**27.00**	42180	Nickel	500	1500	95–105	**28.50**
42177	Ox. Copper	250	750	106–115	**26.00**	42181	Ox. Copper	500	1500	106–115	**27.50**
42177	Nickel	250	750	106–115	**27.00**	42181	Nickel	500	1500	106–115	**28.50**
42178	Ox. Copper	250	750	116–125	**26.00**	42182	Ox. Copper	500	1500	116–125	**27.50**
42178	Nickel	250	750	116–125	**27.00**	42182	Nickel	500	1500	116–125	**28.50**
42179	Ox. Copper	250	750	200–225	**27.50**	43548	Ox. Copper	500	1500	200–225	**30.00**
42179	Nickel	250	750	200–225	**28.50**	43548	Nickel	500	1500	200–225	**31.00**

GLUE POTS

The water bath used in connection with the ordinary glue pot is unnecessary in this design of pot which is self-regulating.

When these pots are used at their rated voltages it is impossible to burn the glue even if the current is left on a sufficient length of time to dry the glue into a solid mass.



ONE QUART GLUE POT

Cat. No.	Cap. in Quarts	Watts	Volts	List Price	Cat. No.	Cap. in Quarts	Watts	Volts	List Price
41597	1	85	95–125	**$13.00**	43498	2	115	226–250	**$16.50**
43495	1	85	200–225	**14.50**	41599	4	185	95–125	**21.00**
43496	1	85	226–250	**14.50**	43499	4	185	200–225	**22.50**
41598	2	115	95–125	**15.00**	43500	4	185	226–250	**22.50**
43497	2	115	200–225	**16.50**					

Three-Heat Glue Pots

Any one of the 200 to 250 volt glue pots can be furnished with a three-heat switch which will render it suitable for use as a three-heat device on a 110 volt circuit; the device so used is self-regulating *only* on low heat.

WIRE AND CABLE

Notes

All soft drawn copper wires have a conductivity of 98% or better; hard drawn copper wires a conductivity of 96% or better.

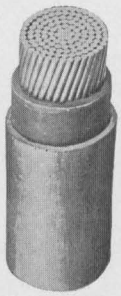
In these lists the Brown & Sharpe (American) wire gauge is adopted and will be used in filling orders unless a different gauge is specified. (See page 391.) Prices will be quoted on any



VARNISHED CAMBRIC INSULATED AND LEAD COVERED CABLE



VARNISHED CAMBRIC INSULATED AND DOUBLE BRAIDED CABLE

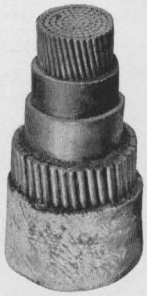


PAPER INSULATED AND LEAD COVERED CABLE

gauge or on wire drawn to special diameter, but it should be understood that such wire cannot be shipped as promptly as the regularly listed sizes. All reels are charged extra and when returned in good condition, freight prepaid, will be credited at the same price as charged. Credit cannot be allowed on reels of other manufacture. General Electric reels are readily recognized by the GE stenciled monogram.



PAPER INSULATED LEAD COVERED CABLE, WITH JUTE AND ASPHALT JACKET



RUBBER INSULATED LEAD COVERED AND WIRE ARMORED CABLE, WITH JUTE AND ASPHALT JACKET



VARNISHED CAMBRIC INSULATED LEAD COVERED AND BAND STEEL ARMORED CABLE, WITH JUTE AND ASPHALT JACKET

A specialty is made of car wiring cables and heavy cables insulated in various styles and of any desired degree of flexibility and for any voltage.

Telegraph and electric light cables of any size and type required can also be furnished.

Prices on special wires or cables not contained in the following lists can be furnished upon application.

In inquiries for special cables, always state:

First—Size of conductor (or current to be carried).

Second—Number of conductors desired.

WIRE AND CABLE

Notes—Continued

Third—Type of insulation—weatherproof, rubber, paper, varnished cambric, asbestos, etc.

Fourth—The normal working pressure of the circuit.

Fifth—Purpose for which the cable is to be used, i. e., underground, overhead, station wiring, extra flexible, special wire, etc.

Unless otherwise stated, prices quoted do not include delivery.

Standard rubber-covered wire and cable are made in two grades, one having white core and the other red core insulation.

White core insulation is guaranteed to contain 30% of fine Para rubber. This rubber compound is suitable for use under the most severe conditions which any rubber insulation is capable of standing, and is recommended for underground, submarine, mine and tropical use, and for use in ship wiring and in central station work for all potentials.

Red core insulation contains the same percentage of rubber, but of a cheaper grade, and will meet all tests prescribed by National Electric Code. It is intended for house wiring and for general use on potentials not exceeding 6000 volts.

For underground and submarine work we recommend that cables be not worked at more than 40% of the pressure with which they are tested at the factory. If braided wire or cable are run on insulators in dry places they may be safely worked at test pressure.

Wire and Cable, fulfilling the specifications of the different bureaus of the United States Navy, Army, and other government departments, are manufactured to order. Prices on application.

Finishes

The standard finish carried in stock is black weatherproof braid. The following special finishes are furnished to order:

White underwriters' braid.

Asbestos braid, paint finish.

Plain lead jacket.

Lead jacket protected by double wrap of asphalted jute. (C.L.A.)

Lead jacket protected by double wrap of asphalted jute, armor of two flat steel tapes and outside finish of asphalted jute. (C.L.A.I.)

Also cable, wire armored over the lead (C.L.A.W.) or directly over the rubber, C.A.W. as circumstances render desirable, for submarine and mine use.

All wire used in the manufacture of rubber insulated wire and cable is heavily and evenly tinned.

In addition to the ordinary galvanometer tests, the wire and cable are tested with an alternating potential for thirty minutes, as specified in the various tests. The working of cable at potentials exceeding 40% of their specified test pressure for thirty minutes is not recommended.

Wires and cables with lead jacket will be covered with the following thicknesses of lead unless otherwise specified:

Outside diameter of cable (inside diameter of lead pipe).

Diameters	Thickness Lead in Inches	
	Rubber and Varnished Cambric	Paper
Up to and including .400″	$\frac{3}{64}$	$\frac{1}{16}$
.401″ to .650″ inclusive	$\frac{1}{16}$	$\frac{5}{64}$
.651″ to .850″ inclusive	$\frac{5}{64}$	$\frac{3}{32}$
.851″ to 1.500″ inclusive	$\frac{3}{32}$	$\frac{1}{8}$
Larger than 1.501″	$\frac{1}{8}$	$\frac{1}{8}$

WIRE AND CABLE

National Electric Code Standard

Duplex (Flat), Two Conductor

One braid on each conductor and one braid over both (equivalent to double braid).

Solid

Size	Weight in Lbs.	Dimensions in Inches	List Price
8	198	.33 x .60	Prices on application
10	148	.30 x .54	
12	116	.28 x .50	
14	94	.26 x .46	

Stranded

8	214	.35 x .63	Prices on application
10	162	.32 x .57	
12	126	.29 x .52	
14	100	.27 x .48	

Fixture Wire

Old Code, Single Braid, both solid and stranded, 1-64″ rubber, New Code, 1-32″ rubber, commonly known as *light* and *heavy* insulation.

Solid Conductor

Size	Light Insulation		List Price	Heavy Insulation		List Price
	Weight in Lbs.	Diam. in Ins.		Weight in Lbs.	Diam. in Ins.	
14	18.5	.13	Prices on application	33	.20	Prices on application
16	13	.12		17.5	.15	
18	9	.11		13.5	.14	
19	8	.10		12	.13	
20	7.5	.09		11	.12	

Stranded Conductor

14	19.5	.16	Prices on application	35	.21	Prices on application
16	15	.15		20	.18	
18	11.5	.14		16	.17	
19	10	.14		15	.17	
20	9.5	.13		14	.16	

WIRE AND CABLE

Standard Conductor—National Electric Code

Solid

Size	List Price per 1000 Ft. Single Braid		Add for Extra Braid	Diameter Single Braid Inches	Weight per 1000 Ft. in Lbs.		List Price per 1000 Ft. Leaded		Weight per 1000 Ft. Leaded	Diameter Leaded Inches	Thickness of Lead, Inches	Thickness of Rubber, Inches	Test Pressure for 30 Min.	
	R. C.	W.C.			Single Braid	Double Braid	R.C.	W.C.					R.C.	W.C.
18 B.&S.	Prices on application.	Prices on application.	Prices on application.	.159	20	33	Prices on application.	Prices on application.	170	.253	3/64	3/64	1000	1500
16 B.&S.				.190	25	40			203	.284	3/64	3/64	1000	1500
14 B.&S.				.203	33	47			220	.297	3/64	3/64	1000	1500
12 B.&S.				.220	43	58			243	.314	3/64	3/64	1000	1500
10 B.&S.				.241	58	74			273	.335	3/64	3/64	1000	1500
8 B.&S.				.268	81	99			316	.362	3/64	3/64	1000	1500
6 B.&S.				.352	130	150			389	.411	3/64	1/16	2000	2500
5 B.&S.				.372	159	180			433	.431	3/64	1/16	2000	2500
4 B.&S.				.394	187	210			476	.453	3/64	1/16	2000	2500
3 B.&S.				.419	230	254			538	.478	3/64	1/16	2000	2500
2 B.&S.				.448	273	298			599	.507	1/16	1/16	2000	2500
1 B.&S.				.540	362	390			722	.538	1/16	5/64	2000	3500
0 B.&S.				.576	438	467			981	.601	1/16	5/64	2000	3500
00 B.&S.				.616	533	562			1116	.675	1/16	5/64	2000	3500
000 B.&S.				.661	648	678			1279	.721	1/16	5/64	2000	3500
0000 B.&S.				.711	794	827			1473	.771	1/16	5/64	2000	3500

Stranded

16 B.&S.	Prices on application.	Prices on application.	Prices on application.	.196	28	43	Prices on application.	Prices on application.	210	.290	3/64	3/64	1000	1500
14 B.&S.				.212	35	50			228	.306	3/64	3/64	1000	1500
12 B.&S.				.231	46	63			253	.325	3/64	3/64	1000	1500
10 B.&S.				.255	63	81			288	.349	3/64	3/64	1000	1500
8 B.&S.				.285	86	107			335	.379	3/64	3/64	1000	1500
6 B.&S.				.374	139	162			410	.433	3/64	1/16	2000	2500
5 B.&S.				.396	165	189			455	.455	3/64	1/16	2000	2500
4 B.&S.				.422	197	221			507	.481	3/64	1/16	2000	2500
3 B.&S.				.450	240	265			567	.509	3/64	1/16	2000	2500
2 B.&S.				.512	289	316			639	.571	1/16	1/16	2000	2500
1 B.&S.				.587	381	410			935	.647	1/16	5/64	2000	3500
100000 C.M.				.616	447	476			1030	.676	1/16	5/64	2000	3500
0 B.&S.				.626	464	493			1055	.686	1/16	5/64	2000	3500
125000 C.M.				.656	513	544			1128	.716	1/16	5/64	2000	3500
00 B.&S.				.669	563	595			1202	.730	1/16	5/64	2000	3500
150000 C.M.				.690	617	650			1275	.750	1/16	5/64	2000	3500
000 B.&S.				.721	683	716			1372	.811	5/64	5/64	2000	3500
200000 C.M.				.763	800	834			1532	.854	5/64	5/64	2000	3500
0000 B.&S.				.779	835	869			1583	.870	5/64	5/64	2000	3500
250000 C.M.				.873	1032	1095			2047	.980	3/32	3/32	2000	5000
300000 C.M.				.932	1218	1283			2303	1.038	3/32	3/32	2000	5000
350000 C.M.				.976	1381	1449			2527	1.086	3/32	3/32	2000	5000
400000 C.M.				1.027	1548	1617			2753	1.132	3/32	3/32	2000	5000
500000 C.M.				1.113	1888	1958			3202	1.220	3/32	3/32	2000	5000
600000 C.M.				1.222	2275	2354			3725	1.320	3/32	7/64	2000	6000
700000 C.M.				1.294	2619	2707			4148	1.410	3/32	7/64	2000	6000
750000 C.M.				1.328	2791	2880			4355	1.434	3/32	7/64	2000	6000
800000 C.M.				1.360	2959	3051			4912	1.436	3/32	7/64	2000	6000
900000 C.M.				1.423	3295	3390			5340	1.531	3/32	7/64	2000	6000
1000000 C.M.				1.482	3624	3721			5752	1.590	3/32	7/64	2000	6000
1250000 C.M.				1.650	4496	4600			7704	1.820	1/8	1/8	2000	6000
1500000 C.M.				1.772	5319	5432			8754	1.942	1/8	1/8	2000	6000
2000000 C.M.				1.992	6958	7075			10821	2.162	1/8	1/8	2000	6000

Note—Wire and cable No. 1/0 B. & S. and larger tape over rubber in addition to braid and fill National Electric Code Standard Specifications for double braided wire for unlined conduit. Add 1/16" to single braid for diametor of double braid.

CORDS AND CABLES

Brewery Cord—Two Conductors

Extra flexible conductor, separator, 1-32 inch insulation, braid on each and two conductors twisted together.

Canvasite Cord—Two Conductors

Same as Brewery Cord, with the exception that there is a weatherproof braid over all.

Packing-House Cord—Two Conductors

Extra flexible conductor, separator, 1-32 inch insulation, braid on each, conductors twisted together with jute filler, two weatherproof braids over all.

Theater or Stage Cable—Two Conductors

Extra flexible conductor, separator, National Code insulation, braided, conductors twisted together with jute filler, finished with two weatherproof braids over all.

Border Light Cable—More than Two Conductors

Same as Stage or Theater Cable, but consists of more than two conductors.

Deck Cable—Two Conductors

Extra Flexible conductor, 1-32 inch insulation, braided, two conductors twisted together with jute filler and finished with 1-32 inch rubber over all, weatherproof braid.

Prices of all of the above on application.

DYNAMO OR BRUSH HOLDER CABLE

Number of No. 25 B. & S. Wires in Strand	Nearest Equivalent Standard Size	Actual Circular Mils	Dimensions in Inches			Number of No. 25 B. & S. Wires in Strand	Nearest Equivalent Standard Size	Actual Circular Mils	Dimensions in Inches		
			Diam. Bare	Thick-ness of Rubber	Diam. Over all				Diam. Bare	Thick-ness of Rubber	Diam. Over All
25	11	8,000	.108	.047	.275	650	0,000	208,000	.570	.065	.900
50	8	16,000	.150	.047	.320	700	225,000	224,000	.600	.065	.930
75	6	24,000	.205	.047	.375	750	250,000	240,000	.620	.065	.950
100	5	32,000	.235	.047	.450	800	250,000	256,000	.640	.065	.970
150	3	48,000	.285	.047	.500	900	300,000	288,000	.670	.065	1.000
200	2	64,000	.315	.047	.530	1000	300,000	320,000	.690	.065	1.020
250	1	80,000	.360	.047	.580	1250	400,000	400,000	.820	.065	1.150
300	0	96,000	.385	.065	.665	1500	500,000	480,000	.870	.065	1.200
350	0	112,000	.400	.065	.680	1750	550,000	560,000	.950	.093	1.350
400	00	128,000	.430	.065	.710	2000	650,000	640,000	1.000	.093	1.400
450	00	144,000	.485	.065	.765	2250	700,000	720,000	1.050	.093	1.450
500	000	160,000	.490	.065	.790	2500	800,000	800,000	1.150	.093	1.550
550	000	176,000	.510	.065	.810	2750	900,000	880,000	1.200	.093	1.600
600	0000	192,000	.550	.065	.850	3125	1,000,000	1,000,000	1.300	.093	1.700

The cables listed in the foregoing table are designed for pressures not exceeding 750 volts. Cables can be furnished, however, with these strands for higher voltages. When ordering, state either working or test pressure, or thickness of rubber desired. All sizes carried in stock with glazed braid finish. Prices on application.

TELEPHONE WIRES

TELEPHONE WIRE.—This term applies to a single conductor, or two, three or four conductors, in sizes not larger than No. 14 B.&S. twisted together for telephone use. If the multiple conductors are made up plain, and the group finished with either a tape or braid, the price will be the same as similar wires individually braided.

TELEPHONE CABLES.—Are two or more twisted pairs, or more than four single conductors stranded together; the price is obtained by multiplying the price of the individual conductors, either plain or braided (depending upon which is required), by the number of conductors in the cable. An outside, or over all tape or braid, may be furnished without extra charge.

STRANDED CONDUCTORS.—Stranded telephone wires take the same advance over solid as stranded code wire takes over solid.

LIGHTER INSULATION.—No reduction in price can be made for lighter insulation than specified in list.

INSULATION RESISTANCE.—The prices quoted are for wires not subject to a test for insulation resistance, or for those which are for use where an insulation resistance above 50 to 75 megohms per mile is not essential. If a higher insulation resistance is necessary, prices will be quoted on application.

BRAID.—The conductors may be finished with a braid filled with weatherproof compound, or a black or oak colored glazed braid with a colored marking thread to distinguish the conductor.

Telephone Wires—Twisted Pairs

Size	Diameter over Insulation in Inches	List Price per 1000 Ft.	
		Braided	Plain
14	11/64	Prices on application	Prices on application
14	5/32		
16	5/32		
16	9/64		
16	4/32		
18	4/32		
18	7/64		
19	7/64		
19	3/32		
20	3/32		

Single-Conductor one-half the price of twisted pairs.
Three-Conductor one and one-half the price of twisted pairs.
Four-Conductor twice the price of twisted pairs.

For Automobile Charging

Automobile or Twin Charging Cables are extra flexible, with N.E.C. Standard rubber insulation, finished with a braid on each conductor and two braids over all.

Size	Capacity in Amperes	Stranding	List Price per 1000 Ft.
8	25	49/25	Prices on application
6	50	49/22	
4	65	49/21	
1	100	49/18	
0	125	61/18	

WIRE AND CABLE FOR CAR WIRING

Single Conductor, Weatherproof Finish

This class of cable is made with separator, standard code insulation, and single-braid weatherproof finish. Any number of extra braids may be furnished at additional prices as per list given below.

List prices per 1000 feet are as follows:

Size	Stranding	Fin. Wt. in Lbs.	Diameter in Inches	List Price	Add for Extra Braid
STANDARD STRANDS					
6	7/.0613	139	.38	Prices on application	$ 9.00
4	7/.0773	197	.42		11.00
2	7/.0974	289	.51		13.00
1	19/.0664	381	.59		17.00
1/0	19/.0746	464	.63		19.00
2/0	19/.0838	563	.67		21.00
3/0	19/.0940	683	.72		23.00
4/0	19/.1056	835	.78		25.00
250,000	31/.0823	1032	.87		30.00
300,000	37/.0906	1218	.93		32.00
350,000	37/.0974	1381	.98		34.00
500,000	61/.0906	1888	1.11		40.00
750,000	61/.1110	2791	1.33		47.00
EXTRA FLEXIBLE STRANDS					
8	49/24	105	.35	Prices on application	$ 8.80
6	49/23	139	.40		9.90
4	49/22	166	.42		12.10
3	49/21	198	.45		13.20
6	75/25	132	.36		9.90
5	100/25	191	.39		11.00
4	150/25	232	.48		12.10
2	200/25	289	.52		14.30
1	250/25	368	.59		18.70
	300/25	427	.63		20.90
1/0	350/25	483	.65		23.10
2/0	400/25	543	.68		23.10
	450/25	601	.72		25.30
3/0	500/25	659	.74		25.30
	550/25	714	.76		27.50

For each additional braid, add approximately 1/16″ to diameter.

WIRE AND CABLE FOR CAR WIRING

Single Conductor, Flameproof Finish

National Electric Code Standard

This class of cable is made with separator, standard code insulation, and double braid finish—the first braid is cotton, well compounded, the second or finishing braid is filled asbestos.

List prices per 1000 feet are as follows:

STANDARD STRANDS

Size	Stranding	Fin. Wt. in Lbs.	Diameter in Inches	List Price
6	7/.0613	189	.47	Prices on application
4	7/.0773	255	.52	
2	7/.0974	353	.58	
1	19/.0664	461	.68	
1/0	19/.0746	545	.72	
2/0	19/.0838	650	.77	
3/0	19/.0940	778	.82	
4/0	19/.1056	937	.88	
250,000	37/.0823	1138	.99	
300,000	37/.0906	1330	1.05	
350,000	37/.0974	1497	1.10	
500,000	61/.0906	2024	1.23	
750,000	61/.1110	2945	1.45	

EXTRA FLEXIBLE STRANDS

8	49/24	154	.44	Prices on application
6	49/23	194	.49	
4	49/22	225	.52	
3	49/21	261	.54	
6	75/25	185	.46	
5	100/25	248	.49	
4	150/25	298	.57	
2	200/25	360	.61	
1	250/25	450	.68	
	300/25	514	.72	
1/0	350/25	572	.74	
2/0	400/25	636	.77	
	450/25	700	.81	
3/0	500/25	761	.83	
	550/25	821	.85	

CABLE FOR RAILWAY MOTOR LEADS

Weatherproof and Flameproof Finishes

Extra flexible cable with one or more braids is generally used for motor leads, and when ordering cable for this purpose care should be taken to specify the required outside diameter of cable so that a sufficient number of braids may be applied to insure a perfect fit with the rubber bushing in the motor case. This cable can be supplied with either one or more cotton braids weatherproofed, or with cotton braids and an asbestos finishing braid with a flameproof filling, the latter type meeting Underwriters' requirements.

Leads for Standard GE Motors

Type Motor	Volts	No. of Wires	Size of Wire B.&S.	Circular Mils	Dimensions in Inches		List Prices per 1000 Ft.	
					Over-All Diameter	Diameter Bare	Weatherproof	Flameproof
GE – 51	500	200	25	64,000	$\frac{3}{4}$	.325	Prices on application	Prices on application
" 51	250	350	25	112,000	$\frac{3}{4}$	.425		
" 52	500	49	23	25,000	$\frac{1}{2}$	.200		
" 52	250	150	25	48,000	$\frac{5}{8}$	.285		
" 53	500	150	25	48,000	$\frac{5}{8}$	.285		
" 53	250	250	25	80,000	$\frac{3}{4}$	.350		
" 54	500	49	23	25,000	$\frac{1}{2}$	.200		
" 54	250	150	25	48,000	$\frac{5}{8}$	.285		
" 55	500	350	25	112,000	$\frac{3}{4}$	.425		
" 55	250	650	25	176,000	$\frac{15}{16}$	.530		
" 57	500	150	25	48,000	$\frac{5}{8}$	.285		
" 57	250	250	25	80,000	$\frac{3}{4}$	.350		
" 58	500	49	22	31,500	$\frac{5}{8}$	.228		
" 58	250	200	25	64,000	$\frac{3}{4}$	.325		
" 59	500	49	22	31,500	$\frac{5}{8}$	.228		
" 59	250	200	25	64,000	$\frac{3}{4}$	.325		
" 60	500	49	23	25,000	$\frac{1}{2}$	.200		
" 60	250	150	25	48,000	$\frac{5}{8}$	.285		
" 61	500	350	25	112,000	$\frac{3}{4}$	.425		
" 61	250	550	25	176,000	$\frac{15}{16}$	.530		
" 62	500	49	23	25,000	$\frac{1}{2}$	.200		
" 62	250	150	25	48,000	$\frac{5}{8}$	.285		
" 64	500	200	25	64,000	$\frac{3}{4}$	.325		
" 65	500	550	25	176,000	$\frac{15}{16}$	.530		
" 66	500	350	25	112,000	$\frac{3}{4}$	.425		
" 67	500	49	22	31,500	$\frac{5}{8}$	.228		
" 67	250	200	25	64,000	$\frac{3}{4}$	.325		
" 68	500	550	25	176,000	$\frac{15}{16}$	.530		
" 69	500	550	25	176,000	$\frac{15}{16}$	.530		
" 70	500	49	22	31,500	$\frac{5}{8}$	.228		
" 71	500	200	25	64,000	$\frac{3}{4}$	.325		
" 71	250	550	25	176,000	$\frac{15}{16}$	.530		
" 72	140	550	25	176,000	$\frac{15}{16}$	.530		
" 73	500	200	25	64,000	$\frac{3}{4}$	.325		
" 74	500	200	25	64,000	$\frac{3}{4}$	.325		
" 75	500	49	22	31,500	$\frac{5}{8}$	.228		
" 76	500	350	25	112,000	$\frac{3}{4}$	.425		
" 77	500	49	23	25,000	$\frac{1}{2}$	.200		
" 77	250	150	25	48,000	$\frac{5}{8}$	.285		
" 78	500	49	22	31,500	$\frac{5}{8}$	.228		
" 79	250	150	25	48,000	$\frac{5}{8}$	.285		
" 79	500	49	23	25,000	$\frac{1}{2}$	.200		
" 80	500	49	22	31,500	$\frac{5}{8}$	.228		
" 87	500	150	25	48,000	$\frac{5}{8}$	.285		
" 800	125	300	25	96,000	$\frac{5}{8}$	.385		
" 800	500	75	25	24,000	$\frac{1}{2}$	.205		
" 800	500	49	22	31,500	$\frac{5}{8}$	.228		
" 800	250	150	25	48,000	$\frac{5}{8}$	.285		
" 1000	500	49	22	31,500	$\frac{5}{8}$	.228		
" 1000	250	200	25	64,000	$\frac{3}{4}$	.325		

CABLE FOR TYPE M CONTROL

19/25 B.&S. Single conductor. Double braid weatherproof finish. Nearest equivalent size is number 12 B. & S., used for connecting contacters and controllers.

Train Cables

Are multiple conductors, each single conductor being composed of 19/25 B. & S. wires, rubber covered, single braid and a tape and braid finish over all.

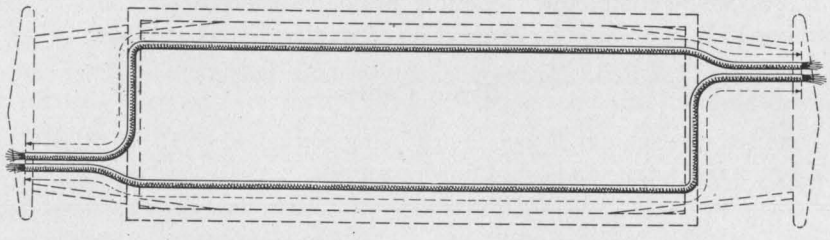
No. of Conductors	Diam. Over All	Weight per 1000 Ft.	List Price per 1000 Ft.
5	.656		
6	.750	345	
7	.750	373	Prices
9	.875	479	on
10	.938	503	application
12	1.063		
20	1.281		

Jumper Cables

Are similar in construction to train cables with the exception that the group of conductors is surrounded by a rubber jacket and a double braid weatherproof finish.

No. of Conductors	Diam. Over All	Weight per 1000 Ft.	List Price per 1000 Ft.
5	.938		
6	1.000	461	
7	1.000	491	Prices
9	1.063	632	on
10	1.125	687	application
12	1.313		
20	1.531		

CONTROLLER CABLE OR MADE UP CABLE FOR CAR WIRING



This class of cable is made up complete for car wiring and embraces the controller and motor circuits; two cables comprise a set,—with the exception of the cable for R-17 controllers, which is a single motor equipment,—and the prices are per set-foot, the length of one cable being taken as a basis.

The outside finish of this cable may be either weatherproof compound over a cotton braid, or flameproof paint over an asbestos braid; this latter style meets underwriters' requirements.

Cables are designed for use with the following controllers and 500 volt motors:—

Controller		GE Motor No.	Total Length of Cable	List Price per Set-Foot	
No.	Capacity			Weatherproof	Flameproof
K-2	2-40-HP-motors	800 or 1000	32-ft. or less 33-ft. or more	Prices on application	Prices on application
K-6	4-40-HP-motors or 2-80 H.P.	58, 67, 70, 80 or 1000 73 or 74	46-ft. or less 47-ft. or more		
K-10	2-40-HP-motors	52, 54, 58, 60, 67 70, 80 or 1000	38-ft. or less 39-ft. or more		
K-11	2-60-HP-motors	53 or 57	42-ft. or less 43-ft. or more		
K-12	4-30-HP-motors	52, 54, 58, 60 or 800	42-ft. or less 43-ft. or more		
K-14	4-60-HP-motors	53 or 57	50-ft. or less 51-ft. or more		
K-28	4-40-HP-motors or 2-80 HP	58, 67, 70, or 1000 73 or 74	42-ft. or less 43-ft. or more		
L-4	4-100-HP-motors	73 or 74	54-ft. or less 55-ft. or more		
B-13	2-40-HP-motors	52, 54, 58, 60, 67, 70, 80, 800 or 1000	38-ft. or less 39-ft. or more		
B-18	2-40-HP-motors	52, 54, 58, 60, 67, 70, 80, 800 or 1000	38-ft. or less 39-ft. or more		
R-17	1-50-HP-motor	53 or 57	36-ft. or less 37-ft. or more		

The controllers with which these cables are used can also be operated with the same number of motors with one-half the horse-power and voltage rating. The prices of the cables will be the same.

STANDARD LAMP CORD

Two Braided Conductors Twisted Together

Size B. & S.	New Code—$\frac{1}{32}$" Ins.				Old Code—$\frac{1}{64}$" Ins.			
	Weight per 1000 Ft.		List Price per 1000 Ft.		Weight per 1000 Ft.		List Price per 1000 Ft.	
	Cotton	Silk	Cotton	Silk	Cotton	Silk	Cotton	Silk
18	28.7	25.9	Prices on application	Prices on application	19	17.3	Prices on application	Prices on application
16	37.1	34.2			26.1	24.4		
14	53.4	49.3			38.9	37.0		
12	74	68.7			54.2	52.3		

PARALLEL CORD OR NEW YORK PORTABLE

Two Braided Conductors Laid Flat and a Braid over All

Size B. & S.	New Code—$\frac{1}{32}$" Ins.			
	Weight per 1000 Lbs.		List Price per 1000 Ft.	
	Cotton	Silk	Cotton	Silk
18	27.3	24.6	Prices on application	Prices on application
16	35.3	32.5		
14	50.9	47.0		
12	70.4	65.4		

Parallel cord may be used for portables in offices and houses where appearance is to be considered and where the braid is not subject to abrasion.

FLAMEPROOF OR GRAY PAINTED CORD

Two Braided Conductors Twisted Together with a Braid over All—Both Braid Soaked in Flameproof Paint

Size B. & S.	New Code—$\frac{1}{32}$" Rubber Insulation	
	Weight per 1000 Ft.—Lbs.	List Price per 1000 Ft.
18	52.2	Prices on application
16	64.3	
14	84.4	
12	101.0	

REINFORCED OR SHOW WINDOW CORD

Standard lamp cord with an outer jacket of rubber and a braid over all.

Size B. & S.	New Code—$\frac{1}{32}$" Insulation				Old Code—$\frac{1}{64}$" Insulation			
	Wt. in Lbs. per 1000 Ft.		List Price per 1000 Ft.		Wt. in Lbs. per 1000 Ft.		List Price per 1000 Ft.	
	Cotton	Silk	Cotton	Silk	Cotton	Silk	Cotton	Silk
18	58.7	55.6	Prices on application	Prices on application	38.8	36.1	Prices on application	Prices on application
16	74.3	70.8			49.6	46.5		
14	96.7	92.7			69.2	65.3		
12	127.0	122.0			89.7	85.8		

Old code reinforced cord may also be used in places where the appearance is important and where the braid is not liable to injury.

HEATER CORD

Two Conductor

This is a braided copper conductor, with a thin layer of rubber, with an asbestos jacket and a braid over all. This braid to meet underwriters' requirements must be of glazed cotton but silk can be furnished if desired.

Size B & S.	Weight per 1000 Ft.		List Price per 1000 Ft	
	Cotton	Silk	Cotton	Silk
12	82.2	82.2		
14	56.7	56.7	Prices on application	Prices on application
16	47.4	47.4		
18	38.2	38.2		

The price of three-conductor cord is $1\frac{1}{2}$ times that of two-conductor.

The standard finish for standard, parallel and reinforced cord is green and yellow. Heater cord, red and black. Black, white, red, green and yellow or any combination can be supplied.

All cord shipped in 500-foot coils.

WIRE AND CABLE

Single Conductor

Rubber Insulated Wire and Cable— $\frac{1}{16}$″ Rubber

Test Pressure—Red Core, 2000 Volts; White Core, 3000 Volts for 30 Minutes

Solid

Size	List Price per 1000 Ft. Single Braid		Add. Price for Double Braid Per 1000 Ft.	Diameter Single Braid Inches	Weight per 100 Ft. in Lbs.		List Price per 1000 Ft. Leaded		Weight per 1000 Ft. Leaded, Lbs.	Diameter Leaded Inches	Thickness of Lead, Inches	Insulation Resistance in Megohms per Mile	
	R.C.	W.C.			Single Brand	Double Brand	R.C.	W.C.				R.C.	W.C.
16 B.&S.				.221	33	48			233	.315	$\frac{3}{64}$	350	600
14 B.&S.	Prices on application			.234	40	56	Prices on application		249	.328	$\frac{3}{64}$	350	600
12 B.&S.				.251	51	67			273	.345	$\frac{3}{64}$	350	600
10 B.&S.				.272	67	85			305	.366	$\frac{3}{64}$	350	600
8 B.&S.				.299	91	109			348	.393	$\frac{3}{64}$	350	600

Stranded

16 B.&S.				.227	39	56			242	.326	$\frac{3}{64}$	350	600
14 B.&S.	Prices on application			.243	43	61	Prices on application		260	.337	$\frac{3}{64}$	350	600
12 B.&S.				.262	60	80			285	.356	$\frac{3}{64}$	350	600
10 B.&S.				.286	78	99			316	.380	$\frac{3}{64}$	350	600
8 B.&S.				.316	105	127			360	.395	$\frac{3}{64}$	350	600

NOTE—Add $\frac{1}{16}$″ to single braid for diameter of each additional braid.

WIRE AND CABLE

Single Conductor

Rubber Insulated Wire and Cable—$\frac{3}{32}$" Rubber

Solid

Size	Factory Test Pressure Volts	List Price	Diameter Single Braid Inches	Weight per 1000 Ft. in Lbs.		Factory Test Pressure Volts	List Price	Weight per 1000 Ft. Leaded, Lbs.	Diameter Leaded Inches	Thickness of Lead, Inches	Insulation Resistance in Megohms per Mile	
	Red Core			Single Braid	Double Braid	White Core					R.C.	W.C.
14 B.&S.	4000	Prices on application	.296	61	80	5000	Prices on application	293	.376	$\frac{3}{64}$	400	700
12 B.&S.	4000		.313	73	93	5000		318	.393	$\frac{3}{64}$	400	700
10 B.&S.	4000		.354	90	111	5000		351	.414	$\frac{3}{64}$	400	700
8 B.&S.	4000		.381	115	138	5000		395	.441	$\frac{3}{64}$	400	700
6 B.&S.	4000		.414	153	177	5000		457	.474	$\frac{3}{64}$	400	700
5 B.&S.	4000		.434	181	205	5000		498	.494	$\frac{3}{64}$	350	600
4 B.&S.	4000		.456	211	236	5000		545	.516	$\frac{3}{64}$	350	600
3 B.&S.	4000		.481	253	280	5000		603	.572	$\frac{1}{16}$	350	600
2 B.&S.	4000		.540	313	340	5000		674	.601	$\frac{1}{16}$	350	600
1 B.&S.	3000		.571	374	402	5000		913	.632	$\frac{1}{16}$	350	600
0 B.&S.	3000		.607	449	478	5000		1025	.667	$\frac{1}{16}$	350	600
00 B.&S.	3000		.647	543	574	5000		1160	.707	$\frac{1}{16}$	300	500
000 B.&S.	3000		.692	661	694	5000		1323	.783	$\frac{5}{64}$	300	500
0000 B.&S.	3000		.742	806	841	5000		1519	.833	$\frac{5}{64}$	300	500

Stranded

14 B.&S.	4000	Prices on application	.305	69	91	5000	Prices on application	304	.385	$\frac{3}{64}$	400	700
12 B.&S.	4000		.324	83	105	5000		332	.403	$\frac{3}{64}$	400	700
10 B.&S.	4000		.368	103	126	5000		367	.427	$\frac{3}{64}$	400	700
8 B.&S.	4000		.398	131	155	5000		416	.457	$\frac{3}{64}$	400	700
6 B.&S.	4000		.436	176	201	5000		485	.495	$\frac{3}{64}$	400	700
5 B.&S.	4000		.458	203	229	5000		528	.518	$\frac{3}{64}$	350	600
4 B.&S.	4000		.484	239	266	5000		583	.523	$\frac{3}{64}$	350	600
3 B.&S.	4000		.542	285	313	5000		647	.600	$\frac{1}{16}$	350	600
2 B.&S.	4000		.574	336	365	5000		878	.634	$\frac{1}{16}$	350	600
1 B.&S.	3000		.618	409	438	5000		996	.678	$\frac{1}{16}$	350	600
100000 C.M.	3000		.647	467	498	5000		1084	.707	$\frac{1}{16}$	350	600
0 B.&S.	3000		.657	485	515	5000		1108	.717	$\frac{1}{16}$	350	600
125000 C.M.	3000		.687	562	566	5000		1182	.747	$\frac{1}{16}$	300	500
00 B.&S.	3000		.701	585	618	5000		1255	.761	$\frac{1}{16}$	300	500
150000 C.M.	3000		.721	638	672	5000		1329	.812	$\frac{5}{64}$	300	500
000 B.&S.	3000		.752	709	743	5000		1430	.843	$\frac{5}{64}$	300	500
200000 C.M.	3000		.794	826	861	5000		1590	.885	$\frac{5}{64}$	300	500
0000 B.&S.	3000		.810	864	900	5000		1643	.901	$\frac{5}{64}$	300	500

NOTE—Add $\frac{1}{16}$" to single braid for diameter of each additional braid.

WIRE AND CABLE

Single Conductor

Rubber Insulated Wire and Cable—$\frac{4}{32}$″ Rubber

Solid

Size	Factory Test Pressure Volts	List Price	Diameter Single Braid Inches	Weight per 1000 Ft. in Lbs.		Factory Test Pressure Volts	List Price	Weight per 1000 Ft. Leaded, Lbs.	Diameter Leaded Inches	Thickness of Lead, Inches	Insulation Resistance in Megohms per Mile	
	Red Core			Single Braid	Double Braid	White Core					R.C.	W.C.
14 B.&S.	6000	Prices on application	.379	84	106	8000	Prices on application	372	.438	$\frac{3}{64}$	600	1000
12 B.&S.	6000		.396	98	121	8000		398	.455	$\frac{3}{64}$	600	1000
10 B.&S.	6000		.417	117	141	8000		432	.476	$\frac{3}{64}$	600	1000
8 B.&S.	6000		.444	144	169	8000		479	.503	$\frac{3}{64}$	600	1000
6 B.&S.	6000		.477	186	213	8000		547	.536	$\frac{3}{64}$	550	900
5 B.&S.	6000		.527	224	252	8000		583	.556	$\frac{3}{64}$	550	900
4 B.&S.	6000		.549	259	287	8000		635	.609	$\frac{1}{16}$	550	900
3 B.&S.	6000		.572	300	329	8000		852	.633	$\frac{1}{16}$	550	900
2 B.&S.	6000		.603	351	380	8000		933	.663	$\frac{1}{16}$	550	900
1 B.&S.	6000		.634	414	445	8000		1028	.694	$\frac{1}{16}$	550	900
0 B.&S.	6000		.670	493	525	8000		1142	.761	$\frac{3}{64}$	500	800
00 B.&S.	6000		.710	591	625	8000		1282	.833	$\frac{3}{32}$	300	800
000 B.&S.	6000		.755	712	746	8000		1450	.878	$\frac{3}{32}$	300	800
0000 B.&S.	6000		.805	859	895	8000		1649	.927	$\frac{3}{32}$	300	800

Stranded

14 B.&S.	6000	Prices on application	.388	89	113	8000	Prices on application	373	.447	$\frac{3}{64}$	600	1000
12 B.&S.	6000		.407	103	127	8000		401	.466	$\frac{3}{64}$	600	1000
10 B.&S.	6000		.431	125	150	8000		439	.490	$\frac{3}{64}$	600	1000
8 B.&S.	6000		.461	156	182	8000		491	.520	$\frac{3}{64}$	600	1000
6 B.&S.	6000		.529	210	237	8000		563	.558	$\frac{3}{64}$	550	900
5 B.&S.	6000		.551	240	268	8000		608	.580	$\frac{3}{64}$	550	900
4 B.&S.	6000		.577	277	306	8000		821	.636	$\frac{1}{16}$	550	900
3 B.&S.	6000		.605	322	351	8000		895	.665	$\frac{1}{16}$	550	900
2 B.&S.	6000		.637	376	407	8000		981	.697	$\frac{1}{16}$	550	900
1 B.&S.	6000		.681	454	486	8000		1104	.741	$\frac{1}{16}$	550	900
100000 C.M.	6000		.710	514	547	8000		1192	.801	$\frac{3}{64}$	550	900
0 B.&S.	6000		.720	530	564	8000		1216	.811	$\frac{3}{64}$	500	800
125000 C.M.	6000		.750	582	616	8000		1290	.841	$\frac{3}{64}$	500	800
00 B.&S.	6000		.764	635	669	8000		1364	.855	$\frac{3}{64}$	500	800
150000 C.M.	6000		.784	689	723	8000		1443	.875	$\frac{3}{64}$	500	800
000 B.&S.	6000		.815	760	796	8000		1545	.937	$\frac{3}{32}$	500	800
200000 C.M.	6000		.872	914	977	8000		1929	.979	$\frac{3}{32}$	500	800
0000 B.&S.	6000		.888	953	1018	8000		1987	.995	$\frac{3}{32}$	500	800
250000 C.M.	4000		.955	1084	1149	6000		2178	1.062	$\frac{3}{32}$	400	700
300000 C.M.	4000		.994	1278	1346	6000		2444	1.101	$\frac{3}{32}$	400	700
350000 C.M.	4000		1.042	1445	1514	6000		2672	1.149	$\frac{3}{32}$	400	700
400000 C.M.	4000		1.088	1617	1686	6000		2901	1.195	$\frac{3}{32}$	400	700
500000 C.M.	4000		1.175	1958	2034	6000		3350	1.282	$\frac{3}{32}$	350	600
600000 C.M.	4000		1.253	2308	2391	6000		3790	1.360	$\frac{3}{32}$	350	600
700000 C.M.	4000		1.325	2657	2747	6000		4222	1.432	$\frac{3}{32}$	350	600
750000 C.M.	4000		1.359	2831	2923	6000		4781	1.466	$\frac{3}{32}$	300	500
800000 C.M.	4000		1.391	3031	3126	6000		5012	1.498	$\frac{3}{32}$	300	500
900000 C.M.	4000		1.454	3343	3438	6000		5432	1.561	$\frac{3}{32}$	300	500
1000000 C.M.	4000		1.513	3675	3773	6000		5852	1.620	$\frac{3}{32}$	300	500

NOTE—Add $\frac{1}{16}$″ to single braid for diameter of each additional braid.
Prices on application.

WIRE AND CABLE

Single Conductor

Rubber Insulated Wire and Cable—$\frac{6}{32}$″ Rubber

Solid

Size	Factory Test Pressure Volts	List Price	Diameter Single Braid Inches	Weight per 1000 Ft. in Lbs.		Factory Test Pressure Volts	List Price	Weight per 1000 Ft. Leaded, Lbs.	Diameter Leaded Inches	Thickness of Lead, Inches	Insulation Resistance in Megohms per Mile	
	Red Core			Single Braid	Double Braid	White Core					R.C.	W.C.
14 B.&S.	10000	Prices on application.	.534	156	184	12500	Prices on application.	512	.562	$\frac{3}{64}$	700	1200
12 B.&S.	10000		.551	173	201	12500		540	.580	$\frac{3}{64}$	700	1200
10 B.&S.	10000		.572	196	224	12500		735	.601	$\frac{3}{64}$	700	1200
8 B.&S.	10000		.598	226	255	12500		792	.658	$\frac{1}{16}$	700	1200
6 B.&S.	10000		.632	272	303	12500		872	.692	$\frac{1}{16}$	700	1200
5 B.&S.	10000		.652	302	333	12500		924	.712	$\frac{1}{16}$	600	1100
4 B.&S.	10000		.674	340	372	12500		982	.734	$\frac{1}{16}$	600	1100
3 B.&S.	10000		.699	386	419	12500		1053	.759	$\frac{1}{16}$	600	1100
2 B.&S.	10000		.728	441	474	12500		1137	.788	$\frac{1}{16}$	600	1100
1 B.&S.	10000		.759	509	543	12500		1235	.850	$\frac{5}{64}$	600	1100
0 B.&S.	10000		.795	592	638	12500		1356	.886	$\frac{5}{64}$	550	1000
00 B.&S.	10000		.850	696	732	12500		1708	.957	$\frac{3}{32}$	550	1000
000 B.&S.	10000		.895	851	926	12500		1898	1.002	$\frac{3}{32}$	550	1000
0000 B.&S.	10000		.945	1011	1084	12500		2109	1.052	$\frac{3}{32}$	550	1000

Stranded

14 B.&S.	10000	Prices on application.	.543	162	190	12500	Prices on application.	524	.572	$\frac{3}{64}$	700	1200
12 B.&S.	10000		.562	181	209	12500		566	.591	$\frac{3}{64}$	700	1200
10 B.&S.	10000		.586	205	233	12500		758	.646	$\frac{1}{16}$	700	1200
8 B.&S.	10000		.616	239	268	12500		822	.676	$\frac{1}{16}$	700	1200
6 B.&S.	10000		.654	290	320	12500		912	.714	$\frac{1}{16}$	600	1100
5 B.&S.	10000		.676	323	354	12500		968	.736	$\frac{1}{16}$	600	1100
4 B.&S.	10000		.702	365	397	12500		1034	.762	$\frac{1}{16}$	600	1100
3 B.&S.	10000		.730	413	447	12500		1112	.790	$\frac{1}{16}$	600	1100
2 B.&S.	10000		.762	472	506	12500		1201	.822	$\frac{1}{16}$	600	1100
1 B.&S.	10000		.806	555	591	12500		1332	.897	$\frac{5}{64}$	550	1000
100000 C.M.	10000		.850	619	656	12500		1638	.957	$\frac{3}{32}$	550	1000
0 B.&S.	10000		.860	637	675	12500		1666	.960	$\frac{3}{32}$	550	1000
125000 C.M.	10000		.890	708	759	12500		1750	.966	$\frac{3}{32}$	550	1000
00 B.&S.	10000		.904	780	844	12500		1834	.980	$\frac{3}{32}$	550	1000
150000 C.M.	10000		.924	838	903	12500		1917	1.000	$\frac{3}{32}$	550	1000
000 B.&S.	10000		.955	915	981	12500		2032	1.031	$\frac{3}{32}$	550	1000
200000 C.M.	10000		.997	1042	1110	12500		2212	1.073	$\frac{3}{32}$	500	900
0000 B.&S.	10000		1.013	1083	1151	12500		2271	1.089	$\frac{3}{32}$	500	900
250000 C.M.	8000		1.060	1225	1294	10000		2473	1.136	$\frac{3}{32}$	500	900
300000 C.M.	8000		1.119	1424	1494	10000		2745	1.195	$\frac{3}{32}$	500	900
350000 C.M.	8000		1.167	1600	1675	10000		2980	1.243	$\frac{3}{32}$	450	800
400000 C.M.	8000		1.213	1781	1860	10000		3218	1.289	$\frac{3}{32}$	450	800
500000 C.M.	8000		1.300	2138	2226	10000		3679	1.376	$\frac{3}{32}$	450	800
600000 C.M.	8000		1.378	2497	2589	10000		4474	1.485	$\frac{3}{32}$	400	700
700000 C.M.	8000		1.450	2854	2950	10000		4938	1.557	$\frac{3}{32}$	400	700
750000 C.M.	8000		1.484	3030	3127	10000		5161	1.591	$\frac{3}{32}$	350	600
800000 C.M.	8000		1.516	3205	3304	10000		5384	1.654	$\frac{7}{64}$	350	600
900000 C.M.	8000		1.579	3557	3658	10000		5829	1.718	$\frac{7}{64}$	350	600
1000000 C.M.	8000		1.638	3900	4004	10000		7085	1.808	$\frac{1}{8}$	350	600

NOTE—Add $\frac{1}{16}$″ to single braid for diameter of each additional braid.

For $\frac{5}{32}$″ insulation, the insulation resistance will be in proportion with $\frac{4}{32}$″ and $\frac{6}{32}$″ insulation.

Test pressure for $\frac{5}{32}$″ Red Core, 10000 volts; White Core, 12000 volts for minutes.

WIRE AND CABLE

Three Conductor

Rubber Insulated Cables

Working Pressure 1000 Volts and Less

Factory Test Pressure 3000 Volts

Size	Insulation		Thickness Lead in Inches	Dia. in Inches	Braided		Leaded	
	On Each Rubber in Inches	Over All Tape in Inches			Wt. in Lbs. per 1000 Feet	List Price	Wt. in Lbs. per 1000 Feet	List Price
8	1/16	1/64	1/16	.80	395		1290	
6	1/16	1/64	1/16	.89	570		1313	
5	1/16	1/64	1/16	.93	661		1447	
4	1/16	1/64	1/16	.99	779		1620	
3	1/16	1/64	5/64	1.08	922		2108	
2	1/16	1/64	5/64	1.15	1093		2369	
1	5/64	1/64	5/64	1.30	1361		2811	
100,000	5/64	1/64	5/64	1.39	1590		3143	
0	5/64	1/64	5/64	1.40	1642		3209	
125,000	5/64	1/64	5/64	1.46	1870		3506	
00	5/64	1/64	3/32	1.52	1980		4012	
150,000	5/64	1/64	3/32	1.57	2160		4256	
000	5/64	1/64	3/32	1.63	2392		4588	
200,000	5/64	1/64	1/8	1.79	2785		5940	
0000	5/64	1/64	1/8	1.82	2911	Prices on application	6134	Prices on application
250,000	3/32	1/64	1/8	1.99	3464		7003	
300,000	3/32	1/64	1/8	2.12	4108		7890	
350,000	3/32	1/64	1/8	2.22	4665		8636	
400,000	3/32	1/64	9/64	2.35	5239		9957	
500,000	3/32	1/64	9/64	2.46	6314		11266	

Working Pressure 3000 Volts and Less

Factory Test Pressure 7500 Volts

8	3/32	1/32	1/16	.97	569		1394	
6	3/32	1/32	5/64	1.09	725		1918	
5	3/32	1/32	5/64	1.13	823		2077	
4	3/32	1/32	5/64	1.20	944		2265	
3	3/32	1/32	5/64	1.25	1099		2491	
2	3/32	1/32	5/64	1.32	1253		2726	
1	3/32	3/64	3/32	1.47	1552		3504	
100,000	3/32	3/64	3/32	1.54	1780		3838	
0	3/32	3/64	3/32	1.56	1839		3921	
125,000	3/32	3/64	3/32	1.63	2071		4255	
00	3/32	3/64	3/32	1.67	2188		4417	
150,000	3/32	3/64	3/32	1.70	2372		4665	
000	3/32	3/64	3/32	1.77	2616		5009	
200,000	3/32	3/64	1/8	1.92	3027		6428	
0000	3/32	3/64	1/8	1.95	3163	Prices on application	6732	Prices on application
250,000	3/32	1/16	1/8	2.09	3672		7390	
300,000	3/32	1/16	1/8	2.21	4327		8287	
350,000	3/32	1/16	1/8	2.32	4894		9047	
400,000	3/32	1/16	9/64	2.45	5481		10413	
500,000	3/32	1/16	9/64	2.55	6566		11714	

WIRE AND CABLE

Three Conductor

Rubber Insulated Cable

Working Pressure 5000 Volts and Less
Factory Test Pressure 12500 Volts

Size	Insulation		Thickness Lead in Inches	Diam. in Inches	Braided		Leaded	
	On Each Rubber in Inches	Over All Rubber in Inches			Wt. in Lbs. per 1000 Feet	List Price	Wt. in Lbs. per 1000 Feet	List Price
8	4/32	1/16	5/64	1.22	786	Prices on application	2143	Prices on application
6	4/32	1/16	3/32	1.33	961		2745	
5	4/32	1/16	3/32	1.38	1076		2878	
4	4/32	1/16	3/32	1.44	1185		3066	
3	4/32	1/16	3/32	1.50	1353		3320	
2	4/32	1/16	3/32	1.57	1548		3613	
1	4/32	3/32	3/32	1.72	1900		4188	
100,000	4/32	3/32	3/32	1.79	2152		4573	
0	4/32	3/32	3/32	1.81	2211		4660	
125,000	4/32	3/32	3/32	1.87	2468		4999	
00	4/32	3/32	3/32	1.90	2592		5166	
150,000	4/32	3/32	1/8	2.01	2786		6362	
000	4/32	3/32	1/8	2.08	3049		6749	
200,000	4/32	3/32	1/8	2.17	3481		7348	
0000	4/32	3/32	1/8	2.20	3622		7557	
250,000	4/32	3/32	1/8	2.30	4092		8219	

Working Pressure 7000 Volts and Less
Factory Test Pressure 17500 Volts

8	5/32	4/32	3/32	1.51	1147	Prices on application	3165	Prices on application
6	5/32	4/32	3/32	1.60	1302		3443	
5	5/32	4/32	3/32	1.64	1425		3633	
4	5/32	4/32	3/32	1.70	1544		4010	
3	5/32	4/32	3/32	1.76	1754		4131	
2	5/32	4/32	3/32	1.83	1972		4448	
1	5/32	4/32	1/8	1.98	2248		5760	
100,000	5/32	4/32	1/8	2.05	2510		6159	
0	5/32	4/32	1/8	2.07	2581		6261	
125,000	5/32	4/32	1/8	2.13	2841		6654	
00	5/32	4/32	1/8	2.16	2973		6838	
150,000	5/32	4/32	1/8	2.21	3181		7131	
000	5/32	4/32	1/8	2.27	3455		7531	
200,000	5/32	4/32	1/8	2.37	3911		8158	
0000	5/32	4/32	1/8	2.40	4055		8368	
250,000	5/32	4/32	1/8	2.50	4539		9046	

WIRE AND CABLE

Three Conductor

Rubber Insulated Cable

Working Pressure, 10000 Volts and Less
Factory Test Pressure, 25000 Volts

Size	Insulation		Thickness Lead in Inches	Diam. in Inches	Braided		Leaded	
	On Each Rubber in Inches	Over All Rubber in Inches			Wt. in Lbs. per 1000 Feet	List Price	Wt. in Lbs. per 1000 Feet	List Price
8	6/32	5/32	3/32	1.72	1428	Prices on application	3748	Prices on application
6	6/32	5/32	3/32	1.79	1614		4036	
5	6/32	5/32	3/32	1.84	1768		4258	
4	6/32	5/32	3/32	1.90	1937		4510	
3	6/32	5/32	3/32	1.96	2126		4789	
2	6/32	5/32	3/32	2.03	2361		5121	
1	6/32	5/32	1/8	2.17	2636		6518	
100,000	6/32	5/32	1/8	2.25	2926		6945	
0	6/32	5/32	1/8	2.26	2997		7052	
125,000	6/32	5/32	1/8	2.33	3286		7470	
00	6/32	5/32	1/8	2.36	3423		7661	
150,000	6/32	5/32	1/8	2.40	3622		7942	
000	6/32	5/32	1/8	2.47	3927		8372	
200,000	6/32	5/32	1/8	2.56	4400		9015	
0000	6/32	5/32	1/8	2.60	4557		9244	
250,000	6/32	5/32	1/8	2.70	5073		9981	

Working Pressure, 15000 Volts and Less
Factory Test Pressure, 33000 Volts

8	8/32	6/32	3/32	2.09	2082	Prices on application.	4927	Prices on application.
6	8/32	6/32	3/32	2.17	2324		5285	
5	8/32	6/32	3/32	2.21	2473		5493	
4	8/32	6/32	3/32	2.27	2655		5759	
3	8/32	6/32	3/32	2.33	2879		6067	
2	8/32	6/32	1/8	2.46	3131		7561	
1	8/32	6/32	1/8	2.55	3455		8054	
100,000	8/32	6/32	1/8	2.62	3736		8469	
0	8/32	6/32	1/8	2.64	3844		8604	
125,000	8/32	6/32	1/8	2.71	4153		9053	
00	8/32	6/32	1/8	2.74	4202		9258	
150,000	8/32	6/32	1/8	2.78	4530		9560	
000	8/32	6/32	1/8	2.85	4850		10005	
200,000	8/32	6/32	1/8	2.94	5345		10687	
0000	8/32	9/32	1/8	2.97	5519		10916	
250,000	8/32	6/32	1/8	3.07	6069		11656	

WIRE AND CABLE

Varnished Cambric Insulated Cables

Single Conductor

Working Pressure 1000 Volts and Less
Factory Test Pressure 3000 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Diam. in Inches	Braided		Leaded	
				Weight in Lbs.	List Price per 1000 Ft.	Weight in Lbs.	List Price per 1000 Ft.
6 Sol.	1/16	3/64	.40	165	Prices on application	375	Prices on application
4 "	1/16	3/64	.44	225		459	
6 St.	1/16	3/64	.42	175		398	
4 "	1/16	3/64	.47	239		490	
2 "	1/16	1/16	.56	338		755	
1 "	5/64	1/16	.63	420		905	
1/0 "	5/64	1/16	.67	501		1025	
2/0 "	5/64	1/16	.72	600		1163	
3/0 "	5/64	1/16	.77	727		1333	
4/0 "	3/32	5/64	.89	906		1824	
250,000	3/32	3/32	.97	1110		2243	
300,000	3/32	3/32	1.03	1298		2516	
400,000	3/32	3/32	1.12	1629		2980	
500,000	3/32	3/32	1.21	1975		3454	
750,000	7/64	3/32	1.42	2894		4646	
1,000,000	7/64	3/32	1.58	3738		5699	
1,250,000	1/8	7/64	1.78	4639		7237	
1,500,000	1/8	1/8	1.93	5470		8715	
2,000,000	1/8	1/8	2.15	7119		10778	

Working Pressure 3000 Volts and Less
Factory Test Pressure 7500 Volts

6 Sol.	3/32	3/64	.46	200	Prices on application	446	Prices on application
4 "	3/32	3/64	.50	266		535	
6 St.	3/32	3/64	.48	211		470	
4 "	3/32	3/64	.53	281		567	
2 "	3/32	1/16	.62	376		853	
1 "	3/32	1/16	.66	442		956	
1/0 "	3/32	1/16	.70	524		1074	
2/0 "	3/32	1/16	.75	629		1218	
3/0 "	3/32	5/64	.83	753		1599	
4/0 "	7/64	5/64	.92	1003		1891	
250,000	7/64	3/32	1.00	1143		2321	
300,000	1/8	3/32	1.09	1368		2673	
400,000	1/8	3/32	1.16	1712		3145	
500,000	1/8	3/32	1.27	2056		3617	
750,000	1/8	3/32	1.45	2943		4734	
1,000,000	1/8	3/32	1.61	3792		5798	
1,250,000	1/8	7/64	1.77	4639		7237	
1,500,000	1/8	1/8	1.93	5470		8715	
2,000,000	1/8	1/8	2.15	7119		10778	

Duplex cables twice the price of single conductor.

Duplex cables larger than 250,000 Cm. are difficult to handle and therefore are not recommended.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Varnished Cambric Insulated Cables

Single Conductor

Working Pressure 5000 Volts and Less
Factory Test Pressure 12500 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Diam. in Inches	Braided		Leaded	
				Weight in Lbs.	List Price per 1000 Ft.	Weight in Lbs.	List Price per 1000 Ft.
6 Sol.	9/64	3/64	.55	258	Prices on application.	562	Prices on application.
4 "	9/64	1/16	.63	322		804	
6 St.	9/64	3/64	.57	269		588	
4 "	9/64	1/16	.65	338		947	
2 "	9/64	1/16	.71	442		1002	
1 "	5/32	1/16	.79	542		1165	
1/0 "	5/32	5/64	.86	629		1512	
2/0 "	5/32	3/32	.94	735		1897	
3/0 "	5/32	3/32	.99	939		2100	
4/0 "	5/32	3/32	1.04	1102		2347	
250,000	5/32	3/32	1.09	1247		2555	
300,000	5/32	3/32	1.15	1440		2838	
400,000	5/32	3/32	1.24	1796		3216	
500,000	5/32	3/32	1.33	2152		3795	
750,000	11/64	7/64	1.58	3096		5390	
1,000,000	11/64	7/64	1.73	3958		6493	

Working Pressure 7000 Volts and Less
Factory Test Pressure 17500 Volts

6 Sol.	3/16	1/16	.68	320	Prices on application.	851	Prices on application.
4 "	3/16	1/16	.72	389		958	
6 St.	3/16	1/16	.70	336		884	
4 "	3/16	1/16	.75	413		1002	
2 "	3/16	1/16	.81	520		1164	
1 "	3/16	5/64	.88	595		1505	
1/0 "	3/16	3/32	.95	739		1817	
2/0 "	3/16	3/32	1.00	869		2047	
3/0 "	3/16	3/32	1.05	1003		2254	
4/0 "	3/16	3/32	1.11	1175		2506	
250,000	3/16	3/32	1.15	1317		2718	
300,000	13/64	3/32	1.24	1565		3093	
400,000	13/64	3/32	1.36	1964		3627	
500,000	7/32	3/32	1.46	2364		4161	
750,000	7/32	7/64	1.67	3264		5707	
1,000,000	7/32	1/8	1.85	4155		7279	

Duplex cables twice the price of single conductor.

Duplex cables larger than 250,000 Cm. are difficult to handle and therefore are not recommended.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Varnished Cambric Insulated Cables

Single Conductor

Working Pressure 10000 Volts and Less
Factory Test Pressure 25000 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Dia. in Inches	Braided		Leaded	
				Weight in Lbs.	List Price per 1000 Ft.	Weight in Lbs.	List Price per 1000 Ft.
6 Sol.	1/4	1/16	.80	424	Prices on application	1063	Prices on application
4 "	1/4	1/16	.84	498		1176	
6 St.	1/4	1/16	.82	441		1102	
4 "	1/4	1/16	.87	521		1227	
2 "	1/4	5/64	.96	712		1651	
1 "	1/4	3/32	1.04	793		1925	
1/0 "	1/4	3/32	1.08	891		2182	
2/0 "	1/4	3/32	1.12	1009		2365	
3/0 "	1/4	3/32	1.17	1150		2580	
4/0 "	1/4	3/32	1.23	1327		2839	
250,000	1/4	3/32	1.28	1483		3058	
300,000	1/4	3/32	1.38	1707		3353	
400,000	1/4	3/32	1.48	2087		4031	
500,000	1/4	7/64	1.57	2467		4709	
750,000	17/64	7/64	1.80	3458		6470	
1,000,000	17/64	1/8	1.96	4386		7688	

Working Pressure 15000 Volts and Less
Factory Test Pressure 33000 Volts

6 Sol.	11/32	3/32	1.05	660	Prices on application	1939	Prices on application
4 "	11/32	3/32	1.10	767		2084	
6 St.	11/32	3/32	1.08	705		1994	
4 "	11/32	3/32	1.12	797		2153	
2 "	11/32	3/32	1.18	927		2373	
1 "	3/8	3/32	1.29	1110		2693	
1/0 "	3/8	3/32	1.33	1225		2860	
2/0 "	3/8	3/32	1.37	1360		3051	
3/0 "	3/8	3/32	1.42	1533		3288	
4/0 "	3/8	3/32	1.48	1732		3562	
250,000	3/8	3/32	1.53	1901		3795	
300,000	3/8	7/64	1.63	2130		4487	
400,000	3/8	1/8	1.73	2530		5246	
500,000	3/8	1/8	1.82	2930		6006	
750,000	25/64	1/8	2.05	3998		7468	
1,000,000	13/32	1/8	2.23	5005		8835	

Duplex cables twice the price of single conductors.

Duplex cables larger than 250,000 Cm. are difficult to handle and therefore are not recommended.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Varnished Cambric Insulated Cables

Triple Conductor

Working Pressure 1000 Volts and Less
Factory Test Pressure 3000 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Dia. in Inches	Braided		Leaded	
				Wt. in Lbs.	List Price per 1000 Ft.	Wt. in Lbs.	List Price per 1000 Ft.
6	$\frac{7}{16}-\frac{1}{32}$	$\frac{1}{16}$	.87	610	Prices on application	1312	Prices on application
4	$\frac{1}{16}-\frac{1}{32}$	$\frac{1}{16}$	.97	988		1624	
2	$\frac{1}{16}-\frac{1}{32}$	$\frac{5}{64}$	1.17	1249		2437	
1	$\frac{1}{16}-\frac{1}{32}$	$\frac{5}{64}$	1.25	1486		2761	
1/0	$\frac{1}{16}-\frac{1}{32}$	$\frac{5}{64}$	1.34	1781		3152	
2/0	$\frac{1}{16}-\frac{1}{32}$	$\frac{3}{32}$	1.47	2144		3959	
3/0	$\frac{1}{16}-\frac{1}{32}$	$\frac{3}{32}$	1.58	2570		4535	
4/0	$\frac{5}{64}-\frac{1}{32}$	$\frac{1}{8}$	1.84	3234		6321	
250,000	$\frac{3}{32}-\frac{3}{64}$	$\frac{1}{8}$	1.97	3784		7107	

Working Pressure 3000 Volts and Less
Factory Test Pressure 7500 Volts

6	$\frac{5}{64}-\frac{3}{64}$	$\frac{5}{64}$	1.03	804	Prices on application	1827	Prices on application
4	$\frac{5}{64}-\frac{3}{64}$	$\frac{5}{64}$	1.14	1029		2179	
2	$\frac{5}{64}-\frac{3}{64}$	$\frac{5}{64}$	1.27	1384		2679	
1	$\frac{5}{64}-\frac{3}{64}$	$\frac{3}{32}$	1.38	1640		3343	
1/0	$\frac{5}{64}-\frac{1}{16}$	$\frac{3}{32}$	1.50	1994		3853	
2/0	$\frac{5}{64}-\frac{1}{16}$	$\frac{3}{32}$	1.60	2356		4354	
3/0	$\frac{3}{32}-\frac{1}{16}$	$\frac{3}{32}$	1.78	2931		5172	
4/0	$\frac{3}{32}-\frac{1}{16}$	$\frac{1}{8}$	1.97	3504		6824	
250,000	$\frac{3}{32}-\frac{1}{16}$	$\frac{1}{8}$	2.07	3983		7498	

For four-conductor cables add 25% to price of corresponding three-conductor cables.

Under "Thickness of Insulation" the first column is the thickness of insulation on each conductor and the second column is the thickness over all.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Varnished Cambric Insulated Cables

Triple Conductor

Working Pressure 5000 Volts and Less
Factory Test Pressure 12500 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Dia. in Inches	Braided		Leaded	
				Wt. in Lbs.	List Price per 1000 Ft.	Wt. in Lbs.	List Price per 1000 Ft.
6	3/32–5/64	3/32	1.20	956	Prices on application	2419	Prices on application
4	3/32–5/64	3/32	1.30	1204		2804	
2	3/32–5/64	3/32	1.43	1601		3361	
1	3/32–3/32	3/32	1.55	1916		3834	
1/0	3/32–3/32	3/32	1.64	2221		4268	
2/0	3/32–3/32	3/32	1.74	2608		4792	
3/0	3/32–3/32	1/8	1.91	3083		6287	
4/0	3/32–3/32	1/8	2.03	3650		7090	
250,000	3/32–3/32	1/8	2.13	4118		7755	

Working Pressure 7000 Volts and Less.
Factory Test Pressure 17500 Volts

6	1/8–1/8	3/32	1.42	1304	Prices on application	3056	Prices on application
4	1/8–1/8	3/32	1.53	1583		3473	
2	1/8–1/8	3/32	1.66	1979		4057	
1	1/8–1/8	1/8	1.81	2268		5296	
1/0	1/8–1/8	1/8	1.89	2602		5783	
2/0	1/8–1/8	1/8	1.99	3001		6364	
3/0	1/8–1/8	1/8	2.10	3597		7169	
4/0	1/8–1/8	1/8	2.23	4077		7890	
250,000	1/8–1/8	1/8	2.33	4610		8597	

For four-conductor cables add 25% to price of corresponding three-conductor cables.

Under "Thickness of Insulation" the first column is the thickness of insulation on each conductor and the second column is the thickness over all.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Varnished Cambric Insulated Cables

Triple Conductor

Working Pressure 10000 Volts and Less
Factory Test Pressure 25000 Volts

Size	Thick. Ins. in Inches	Thick. Lead in Inches	Dia. in Inches	Braided		Leaded	
				Wt. in Lbs.	List Price per 1000 Ft.	Wt. in Lbs.	List Price per 1000 Ft.
6	5/32–5/32	3/32	1.62	1623	Prices on application	3651	Prices on application
4	5/32–5/32	3/32	1.73	1930		4100	
2	5/32–5/32	3/32	1.86	2370		4712	
1	11/64–11/64	1/8	2.10	2866		6438	
1/0	11/64–11/64	1/8	2.19	3222		6963	
2/0	11/64–11/64	1/8	2.29	3660		7570	
3/0	11/64–11/64	1/8	2.40	4195		8343	
4/0	11/64–11/64	1/8	2.52	4851		9193	
250,000	11/64–11/64	1/8	2.63	5405		9932	

Working Pressure 15000 Volts and Less
Factory Test Pressure 33000 Volts

6	3/16–3/16	3/32	1.82	2005	Prices on application	4289	Prices on application
4	3/16–3/16	3/32	1.92	2318		4744	
2	3/16–3/16	1/8	2.11	2768		6365	
1	13/64–13/64	1/8	2.30	3329		7254	
1/0	13/64–13/64	1/8	2.39	3715		7803	
2/0	13/64–13/64	1/8	2.48	4217		8485	
3/0	13/64–13/64	1/8	2.59	4731		9201	
4/0	13/64–13/64	1/8	2.72	5406		10100	
250,000	13/64–13/64	1/8	2.82	5982		10851	

For four-conductor cables add 25% to price of corresponding three-conductor cables.

Under "Thickness of Insulation" the first column is the thickness of insulation on each conductor and the second column is the thickness over all.

The fourth column—Dia. in Inches—is the over-all diameter of the finished cable and is approximately the same for either braided or leaded.

WIRE AND CABLE

Paper Insulated Cables

QUALITY OF PAPER.—Only the best grade of manila rope paper is used for the insulation of paper cables.

VACUUM PROCESS.—All cables are dried under vacuum, avoiding the use of high temperatures and consequent weakening of the paper, and insuring uniform and perfect dehydration.

THICKNESS OF LEAD.—Two thicknesses of lead are given for all cables; the thinner being the least thickness which we believe should be used since the life of a paper cable is dependent on the life of its lead jacket.

TESTS.—All paper cables receive careful tests and inspection.

CABLES WITH $\frac{3}{32}$" PAPER.—Cables with $\frac{3}{32}$" paper insulation for 1000 volts working pressure and less are recommended only in sizes up to and including 500,000 Cm.; for larger cables of this voltage use list covering working pressure of 2000 volts and less, $\frac{4}{32}$" insulation.

GUARANTEE.—Paper cables cannot be guaranteed against failure due to corrosion of the lead sheaths by the effects of electrolysis or other causes beyond our control.

Single Conductor

Thickness Insulation $\frac{3}{32}$"

Size	Lead in Inches	Weight per 1000 Feet	Diameter Over All in Inches	List Price	Thickness of Lead in Inches	Weight per 1000 feet	Diameter over All in Inches	List Price
8	$\frac{1}{16}$	461	.441	Prices on application	$\frac{3}{32}$	691	.504	Prices on application
6	$\frac{1}{16}$	530	.475		$\frac{3}{32}$	778	.538	
5	$\frac{1}{16}$	574	.495		$\frac{3}{32}$	831	.558	
4	$\frac{1}{16}$	626	.517		$\frac{3}{32}$	897	.580	
Stranded								
6	$\frac{1}{16}$	558	.497		$\frac{3}{32}$	817	.560	
5	$\frac{1}{16}$	605	.519		$\frac{3}{32}$	877	.582	
4	$\frac{1}{16}$	662	.545		$\frac{3}{32}$	950	.608	
2	$\frac{1}{16}$	814	.605		$\frac{3}{32}$	1125	.668	
1	$\frac{3}{32}$	1250	.708		$\frac{4}{32}$	1603	.770	
1/0	$\frac{3}{32}$	1386	.749		$\frac{4}{32}$	1759	.811	
2/0	$\frac{3}{32}$	1551	.795		$\frac{4}{32}$	1946	.857	
3/0	$\frac{3}{32}$	1742	.846		$\frac{4}{32}$	2162	.908	
4/0	$\frac{3}{32}$	1977	.904		$\frac{4}{32}$	2421	.966	
250,000	$\frac{3}{32}$	2165	.951		$\frac{4}{32}$	2641	1.013	
300,000	$\frac{3}{32}$	2433	1.010		$\frac{4}{32}$	2936	1.072	
350,000	$\frac{3}{32}$	2660	1.058		$\frac{4}{32}$	3187	1.120	
400,000	$\frac{3}{32}$	2890	1.104		$\frac{4}{32}$	3437	1.166	
500,000	$\frac{3}{32}$	3359	1.195		$\frac{4}{32}$	3929	1.257	

The price of Duplex Cable is *twice* that of single conductor cable.
Duplex cable larger than 250,000 Cm. is difficult to handle and therefore is not recommended.

WIRE AND CABLE

Paper Insulated Cables, Single Conductor

Thickness Insulation, 4/32"

Size	Thickness of Lead in Inches	Weight per 1000 Ft.	Diameter Over All in Inches	List Price	Thickness of Lead in Inches	Weight per 1000 Ft.	Diameter Over All in Inches	List Price
8	1/16	542	.503	Prices on application	3/32	805	.566	Prices on application
6	1/16	613	.537		3/32	895	.600	
5	1/16	660	.557		3/32	951	.620	
4	1/16	715	.579		3/32	1016	.642	
Stranded								
6	1/16	645	.559		3/32	936	.622	
5	1/16	694	.581		3/32	996	.644	
4	1/16	754	.607		3/32	1068	.670	
2	1/16	902	.667		3/32	1250	.730	
1	3/32	1374	.770		4/32	1756	.832	
1/0	3/32	1514	.811		4/32	1917	.873	
2/0	3/32	1679	.857		4/32	2101	.919	
3/0	3/32	1876	.908		4/32	2322	.970	
4/0	3/32	2106	.966		4/32	2587	1.028	
250,000	3/32	2304	1.013		4/32	2808	1.075	
300,000	3/32	2574	1.072		4/32	3106	1.134	
350,000	3/32	2804	1.120		4/32	3363	1.182	
400,000	3/32	3041	1.166		4/32	3618	1.228	
500,000	3/32	3508	1.257		4/32	4117	1.319	
600,000	4/32	4598	1.393		5/32	5374	1.456	
700,000	4/32	5067	1.465		5/32	5886	1.528	
750,000	4/32	5298	1.499		5/32	6096	1.562	
800,000	4/32	5523	1.531		5/32	6272	1.594	
900,000	3/32	5976	1.594		5/32	6871	1.657	
1,000,000	4/32	6416	1.653		5/32	7343	1.716	
1,250,000	4/32	7500	1.790		5/32	8372	1.853	
1,500,000	4/32	8542	1.912		5/32	9614	1.975	
2,000,000	4/32	10586	2.132		5/32	11776	2.195	

Thickness Insulation, 6/32"

8	1/16	720	.628	Prices on application	3/32	1048	.691	Prices on application
6	1/16	796	.662		3/32	1139	.725	
5	1/16	840	.682		3/32	1196	.745	
4	1/16	896	.704		3/32	1264	.767	
Stranded								
6	1/16	826	.684		3/32	1184	.747	
5	1/16	877	.806		3/32	1247	.767	
4	1/16	937	.732		3/32	1320	.795	
2	1/16	1094	.792		3/32	1509	.855	
1	3/32	1637	.895		4/32	2079	.957	
1/0	3/32	1781	.936		4/32	2242	.998	
2/0	3/32	1945	.982		4/32	2434	1.044	
3/0	3/32	2147	1.033		4/32	2661	1.095	
4/0	3/32	2390	1.091		4/32	2934	1.153	
250,000	3/32	2597	1.138		4/32	3163	1.200	
300,000	3/32	2887	1.197		4/32	3470	1.259	
350,000	3/32	3124	1.245		4/32	3715	1.307	
400,000	3/32	3362	1.291		4/32	3980	1.353	
500,000	3/32	3830	1.382		4/32	4488	1.444	
600,000	4/32	4992	1.518		5/32	5826	1.581	
700,000	4/32	5470	1.590		5/32	6236	1.653	
750,000	4/32	5709	1.624		5/32	6607	1.687	
800,000	4/32	5941	1.656		5/32	6856	1.719	
900,000	4/32	6398	1.719		5/32	7343	1.782	
1,000,000	3/32	6848	1.778		5/32	7823	1.841	
1,250,000	4/32	7945	1.915		5/32	9008	1.978	
1,500,000	4/32	9009	2.037		5/32	10126	2.100	
2,000,000	4/32	11074	2.257		5/32	12264	2.320	

The price of DUPLEX CABLE is *twice* that of single conductor cable. (Use the heavier lead.)

Duplex cable larger than 250,000 Cm. is difficult to handle and therefore is not recommended.

WIRE AND CABLE

Paper Insulated Cables

Single Conductor

Thickness Insulation, $\frac{8}{32}$″

Size	Thickness of Lead in Inches	Weight per 1000 Feet	Diameter Over All in Inches	List Price	Thickness of Lead in Inches	Weight per 1000 Feet	Diameter Over All in Inches	List Price
8	$\frac{3}{32}$	1302	.814		$\frac{4}{32}$	1707	.878	
6	$\frac{3}{32}$	1398	.850		$\frac{4}{32}$	1819	.912	
5	$\frac{3}{32}$	1459	.870		$\frac{4}{32}$	1888	.932	
4	$\frac{3}{32}$	1527	.892		$\frac{4}{32}$	1966	.954	
Stranded								
6	$\frac{3}{32}$	1444	.872		$\frac{4}{32}$	1873	.934	
5	$\frac{3}{32}$	1507	.894		$\frac{4}{32}$	1948	.956	
4	$\frac{3}{32}$	1589	.920		$\frac{4}{32}$	2040	.982	
2	$\frac{3}{32}$	1783	.980		$\frac{4}{32}$	2263	1.042	
1	$\frac{4}{32}$	2413	1.082		$\frac{5}{32}$	3005	1.145	
1/0	$\frac{4}{32}$	2583	1.123		$\frac{5}{32}$	3192	1.186	
2/0	$\frac{4}{32}$	2782	1.169		$\frac{5}{32}$	3372	1.232	
3/0	$\frac{4}{32}$	3015	1.220		$\frac{5}{32}$	3603	1.283	
4/0	$\frac{4}{32}$	3295	1.278		$\frac{5}{32}$	3994	1.341	
250,000	$\frac{4}{32}$	3530	1.325		$\frac{5}{32}$	4262	1.388	
300,000	$\frac{4}{32}$	3835	1.384		$\frac{5}{32}$	4602	1.447	
350,000	$\frac{4}{32}$	4099	1.432		$\frac{5}{32}$	4901	1.495	
400,000	$\frac{4}{32}$	4365	1.478		$\frac{5}{32}$	5179	1.541	
500,000	$\frac{4}{32}$	4888	1.569		$\frac{5}{32}$	5744	1.632	
600,000	$\frac{4}{32}$	5392	1.643		$\frac{5}{32}$	6302	1.706	
700,000	$\frac{4}{32}$	5882	1.715		$\frac{5}{32}$	6832	1.778	
750,000	$\frac{4}{32}$	6125	1.749		$\frac{5}{32}$	7035	1.812	
800,000	$\frac{4}{32}$	6354	1.781		$\frac{5}{32}$	7234	1.844	
900,000	$\frac{4}{32}$	6817	1.844		$\frac{5}{32}$	7837	1.907	
1,000,000	$\frac{4}{32}$	7273	1.903		$\frac{5}{32}$	8323	1.966	
1,250,000	$\frac{4}{32}$	8391	2.049		$\frac{5}{32}$	9364	2.103	
1,500,000	$\frac{4}{32}$	9459	2.162		$\frac{5}{32}$	10664	2.225	
2,000,000	$\frac{4}{32}$	11553	2.382		$\frac{5}{32}$	12878	2.445	

Prices on application

Thickness Insulation, $\frac{10}{32}$″

8	$\frac{3}{32}$	1571	.941		$\frac{4}{32}$	2034	1.003	
6	$\frac{3}{32}$	1671	.975		$\frac{4}{32}$	2149	1.037	
5	$\frac{3}{32}$	1735	.995		$\frac{4}{32}$	2220	1.057	
4	$\frac{3}{32}$	1806	1.017		$\frac{4}{32}$	2303	1.079	
Stranded								
6	$\frac{3}{32}$	1720	.997		$\frac{4}{32}$	2208	1.059	
5	$\frac{3}{32}$	1787	1.019		$\frac{4}{32}$	2284	1.081	
4	$\frac{3}{32}$	1868	1.045		$\frac{4}{32}$	2377	1.107	
2	$\frac{3}{32}$	2068	1.105		$\frac{4}{32}$	2609	1.167	
1	$\frac{4}{32}$	2767	1.207		$\frac{5}{32}$	3378	1.270	
1/0	$\frac{4}{32}$	2940	1.248		$\frac{5}{32}$	3562	1.311	
2/0	$\frac{4}{32}$	3141	1.294		$\frac{5}{32}$	3864	1.357	
3/0	$\frac{4}{32}$	3387	1.345		$\frac{5}{32}$	4120	1.408	
4/0	$\frac{4}{32}$	3667	1.403		$\frac{5}{32}$	4447	1.466	
250,000	$\frac{4}{32}$	3904	1.450		$\frac{5}{32}$	4602	1.513	
300,000	$\frac{4}{32}$	4222	1.509		$\frac{5}{32}$	5065	1.572	
350,000	$\frac{4}{32}$	4495	1.557		$\frac{5}{32}$	5354	1.620	
400,000	$\frac{4}{32}$	4764	1.603		$\frac{5}{32}$	5653	1.666	
500,000	$\frac{4}{32}$	5297	1.694		$\frac{5}{32}$	6239	1.757	
600,000	$\frac{4}{32}$	5811	1.768		$\frac{5}{32}$	6783	1.831	
700,000	$\frac{4}{32}$	6305	1.840		$\frac{5}{32}$	7188	1.903	
750,000	$\frac{4}{32}$	6549	1.874		$\frac{5}{32}$	7592	1.937	
800,000	$\frac{4}{32}$	6793	1.906		$\frac{5}{32}$	7847	1.969	
900,000	$\frac{4}{32}$	7269	1.769		$\frac{5}{32}$	8349	2.032	
1,000,000	$\frac{4}{32}$	7725	2.028		$\frac{5}{32}$	8843	2.091	
1,250,000	$\frac{4}{32}$	8860	2.165		$\frac{5}{32}$	10060	2.228	
1,500,000	$\frac{4}{32}$	9947	2.287		$\frac{5}{32}$	11212	2.350	
2,000,000	$\frac{4}{32}$	12068	2.507		$\frac{5}{32}$	13446	2.570	

Prices on application

The price of DUPLEX CABLE is *twice* that of single conductor cable. (Use the heavier lead.)
Duplex cable larger than 250,000 Cm. is difficult to handle and therefore is not recommended.

WIRE AND CABLE

Paper Insulated Cables

Triple Conductor

Thickness Insulation, $\frac{1}{16}$″ on each Conductor, $\frac{1}{16}$″ Over All

Size	Thickness of Lead in Inches	Weight per 1000 Feet	Diameter in Inches	List Price	Thickness of Lead in Inches	Weight per 1000 Feet	Diameter in Inches	List Price
6	3/32	1811	.980	Prices on application	4/32	2291	1.042	Prices on application
5	3/32	1973	1.028		4/32	2475	1.090	
4	3/32	2169	1.084		4/32	2695	1.146	
2	3/32	2673	1.214		4/32	3267	1.276	
1	3/32	3013	1.300		4/32	3643	1.362	
1/0	3/32	3415	1.389		4/32	4086	1.451	
2/0	3/32	3852	1.488		4/32	4567	1.550	
3/0	3/32	4409	1.598		4/32	5178	1.660	
4/0	4/32	5919	1.785		5/32	6901	1.848	
250,000	4/32	6548	1.887		5/32	7583	1.950	
300,000	4/32	7393	2.014		5/32	8513	2.077	

Thickness Insulation $\frac{3}{32}$″ on each Conductor, $\frac{3}{32}$″ Over All

6	3/32	2278	1.182	Prices on application	4/32	2852	1.244	Prices on application
5	3/32	2445	1.227		4/32	3042	1.289	
4	3/32	2649	1.283		4/32	3271	1.345	
2	3/32	3172	1.413		4/32	3854	1.475	
1	3/32	3496	1.499		4/32	4219	1.561	
1/0	3/32	3904	1.588		4/32	4668	1.650	
2/0	3/32	4392	1.687		4/32	5199	1.749	
3/0	4/32	5826	1.859		5/32	6846	1.922	
4/0	4/32	6594	1.985		5/32	7694	2.048	
250,000	4/32	7236	2.086		5/32	8391	2.149	
300,000	4/32	8119	2.214		5/32	9339	2.277	

Thickness Insulation $\frac{4}{32}$″ on each Conductor, $\frac{4}{32}$″ Over All

6	3/32	2762	1.375	Prices on application	4/32	3426	1.437	Prices on application
5	3/32	2940	1.423		4/32	3652	1.485	
4	3/32	3151	1.479		4/32	3850	1.541	
2	3/32	3668	1.609		4/32	4461	1.671	
1	4/32	4844	1.757		5/32	5814	1.820	
1/0	4/32	5311	1.846		5/32	6326	1.909	
2/0	4/32	5857	1.945		5/32	6927	2.008	
3/0	4/32	6507	2.055		5/32	7642	2.118	
4/0	4/32	7290	2.180		5/32	8340	2.243	
250,000	4/32	7918	2.282		5/32	9194	2.345	
300,000	4/32	8848	2.409		5/32	10173	2.472	

Thickness Insulation $\frac{5}{32}$″ on each Conductor, $\frac{5}{32}$″ Over All

6	3/32	3272	1.575	Prices on application	4/32	4029	1.637	Prices on application
5	3/32	3446	1.622		4/32	4224	1.684	
4	3/32	3675	1.678		4/32	4482	1.740	
2	4/32	5105	1.870		5/32	6050	1.933	
1	4/32	5525	1.956		5/32	6510	2.019	
1/0	4/32	6012	2.045		5/32	7032	2.108	
2/0	4/32	6554	2.144		5/32	7637	2.207	
3/0	4/32	7225	2.254		5/32	8363	2.317	
4/0	4/32	8051	2.380		5/32	9248	2.443	
250,000	4/32	8734	2.481		5/32	9974	2.544	
300,000	4/32	9653	2.609		5/32	11084	2.672	

Thickness Insulation $\frac{7}{32}$″ on each Conductor, $\frac{7}{32}$″ Over All

6	1/8	5354	2.032	Prices on application	5/32	6384	2.095	Prices on application
5	1/8	5576	2.079		5/32	6628	2.142	
4	1/8	5842	2.135		5/32	6924	2.198	
2	1/8	6512	2.265		5/32	7655	2.328	
1	1/8	6961	2.351		5/32	8151	2.414	
1/0	1/8	7472	2.440		5/32	8699	2.503	
2/0	1/8	8076	2.539		5/32	9353	2.602	
3/0	1/8	8783	2.649		5/32	10083	2.712	
4/0	1/8	9636	2.775		5/32	11015	2.838	
250,000	1/8	10358	2.876		5/32	11758	2.939	
300,000	1/8	11310	3.004		5/32	12943	3.067	

Under "Thickness of Insulation" the first column is the thickness of insulation on each conductor and the second column is the thickness over all.

FOUR-CONDUCTOR cable—Add 25% to price of corresponding three-conductor.

CONCENTRIC CABLES

This Company is prepared to furnish Two-Conductor Concentric Cables in sizes up to 1,000,000 Cm., and for working pressures up to 10,000 volts.

This form of cable is specially desirable for use with single-phase alternating or pulsating currents, as the inductive effect on neighboring circuits is practically eliminated.

For alternating current cables protected by a lead sheath, or armored, and also for those run in metal pipes, this concentric form is strongly recommended.

The inductive effect produced by each conductor is neutralized, and, therefore, the loss in the metal covering is reduced to a minimum.

This form of cable may be had in either rubber, varnished cambric, or paper insulation, and with any desired finish.

Paper insulated cable must be leaded, but any desired finish may be furnished over the lead.

A complete line of improved fittings for use with concentric cables can be furnished.

ASBESTOS STATION CABLES

VOLTAGE.—These cables are especially adapted to low tension wiring, 650 volts and less. For higher voltages varnished cambric cables with an asbestos or double Underwriters braid are recommended.

SPECIFICATIONS.—Asbestos Station Cables are insulated as follows:

First.—One Asbestos Tape.

Second.—Two varnished Cambric Tapes.

Third.—Six Asbestos Tapes.

Fourth.—One Muslin Tape.

The total thickness of these wraps or tapings is approximately 3-32 of an inch. After the application of the muslin tape the cable is run through flameproof paint, braided and finished with three coats of either green or white flameproof paint.

TEMPERATURE.—The copper core or conductor can be run at a temperature sufficient to melt the solder from the terminal sockets—without injury to the insulation.

NOT WATERPROOF.—This cable is not waterproof, and must be run on insulators or in dry ducts.

Prices and Weights

Size	Diameter in Inches	Per 1000 Ft.		Size	Per 1000 Ft.		List Price
		Weight in Pounds	List Price		Diameter in Inches	Weight in Pounds	
2	.61	313	Prices on application	500,000	1.13	1778	Prices on application
1	.65	360		600,000	1.21	2110	
0	.70	459		700,000	1.28	2462	
00	.74	574		750,000	1.32	2608	
000	.79	678		800,000	1.35	2782	
0000	.85	828		900,000	1.41	3107	
250,000	.89	957		1,000,000	1.47	3420	
300,000	.95	1135		1,250,000	1.61	4235	
350,000	1.00	1289		1,500,000	1.73	5032	
400,000	1.05	1453		2,000,000	1.95	6642	

WIRE AND CABLE

Weatherproof Wire and Cable

The subject of weights of weatherproof wire and cable, either double or triple braid, is fully covered by the following table.

Weatherproof wire up to and including No. 2 B.& S. is shipped in coils of about 1000 ft. each. The sizes from No. 1 B.& S. to 0000 B.& S., inclusive, are shipped on drums 30″x 30″ holding 500 to 600 pounds of insulated wire. Weatherproof cables are shipped in 1000 ft. lengths, but can be made in continuous lengths up to 5000 pound weights if desired.

For export or shipment over long distances, any of the following, ordinarily shipped on reels, can be shipped in coils. If a special package is required, special mention must be made on the order.

Solid

Size	Weatherproof				Weatherproof and Slow Burning	
	Double Braid		Triple Braid		White Finish	
	Diameter in Inches	Weight per 1000 Ft.	Diameter in Inches	Weight per 1000 Ft.	Diameter in Inches	Weight per 1000 Ft.
16	.142	16	.169	20	.169	30
14	.155	20	.182	25	.182	40
12	.172	30	.200	35	.200	52
10	.197	46	.221	53	.221	70
8	.245	66	.264	75	.264	95
6	.278	100	.303	112	.303	140
4	.320	151	.346	164	.346	200
2	.374	239	.400	260	.400	290
1	.405	294	.445	316	.445	350
0	.470	377	.505	407	.505	470
00	.515	467	.550	502	.550	568
000	.560	587	.595	629	.595	720
0000	.610	723	.660	767	.660	870
Stranded						
8	.270	68	.290	78	.290	97
6	.305	103	.327	115	.327	145
4	.353	155	.379	170	.379	205
2	.415	246	.440	270	.440	300
1	.470	303	.518	328	.518	360
0	.555	388	.605	424	.605	485
00	.599	482	.662	522	.662	590
000	.648	604	.728	653	.728	745
0000	.708	745	.785	800	.785	910
250,000	.780	907	.862	985	.862	1080
300,000	.846	1083	.930	1174	.930	1290
350,000	.894	1248	.978	1345	.978	1460
400,000	.940	1436	1.020	1553	1.020	1670
500,000	1.027	1765	1.108	1894	1.108	2010
600,000	1.105	2093	1.190	2235	1.190	2370
700,000	1.177	2471	1.265	2650	1.265	2840
800,000	1.243	2799	1.331	2992	1.331	3200
1,000,000	1.365	3456	1.451	3674	1.451	3880
1,500,000	1.624	5098	1.712	5380	1.712	5600
2,000,000	1.844	6690	1.930	7008	1.930	7100

Prices on application.

WIRE AND CABLE

Magnet Wire

The General Electric Company can furnish Magnet Wire in all sizes from .002″ to 0000. It also makes cable of any size required, and recommends its use wherever a conductor larger than No. 2 B.& S. is necessary. Rectangular cables also are furnished to order.

The following tables give prices and diameters of both cotton and silk covered wires of several different wraps.

Cotton covered wires are wrapped with fine Sea Island cotton, and only the finest Italian silk is used in preparing the silk covered wire.

In the absence of specific instructions accompanying orders, magnet wire insulated as shown in these tables will be shipped.

Cotton Covered Magnet Wire

Size	Diam. in Inches Single Cotton	List Price per Lb.	Diam. in Inches Double Cotton	List Price per Lb.	Diam. in Inches Triple Cotton	List Price per Lb.
0 B.&S.			.339		.343	
1 B.&S.			.303		.307	
2 B.&S.			.272		.276	
3 B.&S.			.242		.247	
4 B.&S.	.211		.216		.220	
5 B.&S.	.189		.194		.198	
6 B.&S.	.169		.175		.178	
7 B.&S.	.161		.156		.160	
8 B.&S.	.135		.140		.144	
9 B.&S.	.121		.126		.130	
10 B.&S.	.108		.112		.116	
11 B.&S.	.097		.101		.105	
12 B.&S.	.087		.091		.095	
13 B.&S.	.078		.082		.086	
14 B.&S.	.070	Prices on application	.074	Prices on application	.078	Prices on application
15 B.&S.	.063		.067		.071	
16 B.&S.	.056		.059		.063	
17 B.&S.	.050		.053		.057	
18 B.&S.	.045		.048		.052	
19 B.&S.	.040		.044		.048	
20 B.&S.	.036	**$0.68**	.040	**$0.71½**	.044	
21 B.&S.	.0325	**.70**	.0365	**.88**	.041	
22 B.&S.	.0294	**.76**	.0334	**.95**	.0375	
23 B.&S.	.0265	**.83**	.0305	**1.55**	.0345	
24 B.&S.	.0241	**.90**	.0280	**1.14**	.0320	
25 B.&S.	.0220	**1.00**	.0260	**1.27**		
26 B.&S.	.0200	**1.10**	.0240	**1.38**		
27 B.&S.	.0180	**1.25**	.0220	**1.57**		
28 B.&S.	.0166	**1.35**	.0206	**1.69**		
29 B.&S.	.0153	**1.50**	.0193	**1.89**		
30 B.&S.	.0140	**1.65**	.0180	**2.07**		
31 B.&S.	.0130	**1.80**	.0170	**2.23**		
32 B.&S.	.0119	**1.95**	.0159	**2.28**		
33 B.&S.	.0110	**2.40**	.0150	**2.85**		
34 B.&S.	.0103	**2.85**	.0143	**3.42**		
35 B.&S.	.0096	**3.25**	.0136	**3.88**		
36 B.&S.	.0085	**4.37**	.0120	**4.93**		

SILK COVERED MAGNET WIRE

Size	List Price per Lb.		Size	List Price per Lb.	
	Single	Double		Single	Double
20 B.& S.	$1.18	$1.61	31 B.& S.	$3.25	$4.40
21 B.& S.	1.20	1.63	32 B.& S.	3.45	4.53
22 B.& S.	1.30	1.76	33 B.& S.	3.90	5.10
23 B.& S.	1.42	1.93	34 B.& S.	4.10	5.30
24 B.& S.	1.56	2.13	35 B.& S.	5.85	7.78
25 B.& S.	1.81	2.48	36 B.& S.	7.00	8.88
26 B.& S.	2.10	2.88	37 B.& S.	11.00	13.63
27 B.& S.	2.25	3.07	38 B.& S.	13.00	14.50
28 B.& S.	2.38	3.23	39 B.& S.	15.00	18.00
29 B.& S.	2.75	3.76	40 B.& S.	20.00	23.00
30 B.& S.	2.95	4.02			

ENAMEL WIRE

Enamel Wire is soft-drawn copper wire insulated with multiple coats of black enamel, baked.

ECONOMY. The comparative table of pounds per thousand feet will show its economy over single cotton-covered wire.

ADVANTAGES. The thickness of insulation is approximately half that of single cotton and two-thirds that of single silk-covered magnet wire. This allows a large number of turns on the same spool or the same number of turns with a less weight of wire. Taking No. 25 B.& S. wire as a representative size, about 25 per cent more turns can be put in the same space with enamel than with single cotton wire. This percentage of advantage for enamel wire becomes less in the coarser sizes and increases in the finer sizes.

Size B. & S.	Diameter in Inches		Comparative Weight per 1000 Feet, in Pounds		List Price per Pound
	Bare	Over Enamel	Single Cotton Covered	Enamel	
14	.0640	.0670	12.684	12.684	
15	.0570	.0600	10.082	10.053	
16	.0510	.0535	8.012	7.973	
17	.0450	.0475	6.375	6.322	
18	.0400	.0420	5.081	5.009	
19	.0360	.0370	4.043	3.966	
20	.0320	.0340	3.218	3.136	
21	.0280	.0305	2.569	2.475	
22	.0250	.0275	2.055	1.970	
23	.0230	.0250	1.630	1.555	
24	.0200	.0220	1.297	1.232	
25	.0180	.0200	1.036	.980	
26	.0160	.0175	.828	.777	
27	.0140	.0155	.661	.616	
28	.0126	.0140	.524	.485	
29	.0110	.0123	.421	.384	
30	.0100	.0113	.336	.303	
31	.0090	.0102	.271	.242	
32	.0080	.0092	.215	.192	
33	.0070	.0082	.174	.152	
34	.0063	.0073	.141	.121	
35	.0056	.0068	.120	.101	
36	.0050	.0062	.099	.081	

ADHESIVE TAPE

Two styles of tape are required in every station—one for outside work and unprotected joints; the other for such places as occur in dynamo windings where the taped joints have additional covering.

Acme Tape

Acme tape is the best grade of friction tape obtainable.

The compound is rich in rubber and, therefore, light in weight, uniform in its adhesion and not subject to rapid deterioration. The cloth of which it is made is snugly woven and of good quality. The compound contains no sulphur and will not oxidize the copper. Acme tape is especially adapted for use in the construction or repair of electrical apparatus, such as motors, generators, etc. On account of the high quality of compound used, this tape is really an insulator and not simply sticky cloth, as are many of the cheaper grades. Acme tape can be supplied in either white or dark slate.

Red Label

In order to meet the demand for a friction tape of good quality but of a lower price than Acme, for use where the conditions are not so severe, the General Electric Company has brought out a cheaper grade known as Red Label. This tape is 40% cheaper per pound. It has been brought out after a number of competitive tests made on the medium priced and cheaper priced tapes on the market and can be recommended as the cheapest tape of reasonably good quality, considering always the large number of yards per pound compared with the cheaper grades. Red Label tape is at present supplied only in dark slate color.

Paragon

Paragon tape has the same quality of cloth as the Acme, but is filled with a non-rubber, weatherproof, adhesive compound. (It is the cheapest tape on the market, as it contains fully as many yards per pound as the Acme tape, which makes the cost per yard practically one-half that of Acme.) It is especially adapted to exterior work on account of its non-drying properties and is largely used in the manufacture of made-up street car cables and for similar purposes.

Tape of any width up to 2″ can be furnished.

Description	Lbs. per Package		List Price per Lb.
	¾″ wide	1″ wide	
Acme friction tape	½	1	$1.00
Red Label tape	½	1	.60
Paragon tape	½	1	.50

GENERAL ELECTRIC SPLICING MATERIALS

The General Electric Company manufactures a full line of splicing material: Splicing Gum, Pure Gum Faced Tape, Varnished Cambric Tape, Treated Paper Tape, and No. 67 Compound.

The Splicing Gum is of superior quality and of particular value when waterproof joints are to be made. Special pains are taken to make this gum tough and durable. It is capable of standing safely a temperature which causes ordinary splicing compounds to lose their tensile strength. At normal temperature the warmth of the hand is sufficient to cause adhesion of the tape upon itself. In freezing weather the heat of a match will enable the gum to be worked into a solid mass.

Pure Gum Faced Tape, which is an excellent substitute for cut sheet rubber and strip compound, is a combination of a vulcanizable rubber backing 1–32″ thick, with a facing of pure Para rubber 1–64″ thick. It can be vulcanized on a joint or left unvulcanized as desired, and it is recommended for use on high tension joints or where very high insulation resistance is required. Both splicing gum and pure gum faced tape can be supplied in any width from ¾″ to 6″.

Varnished Cambric Tape

This is used for repair or construction work on apparatus insulated with varnished cambric, such as high tension alternator coils, transformers, etc. It is the material that is largely used in the construction of General Electric apparatus and has a higher puncture resistance than any other tape of the same thickness, at least 10,000 volts being required to puncture it instantaneously. It may be used to advantage in cable jointing as it does not absorb moisture; moreover, the joint cannot get out of place through the insulating material being crowded to one side. It is also largely used in insulating joints in the rear of high tension switchboards. When the tape is used for this purpose, however, it is recommended that a coat of 042 standard quick-drying insulating varnish made by the General Electric Company be applied between the layers.

Treated Paper Tape

This consists of pure Manila paper which has been dried in a vacuum and impregnated with special cable compound. It is packed in tin boxes which are filled with paraffine so that there is no danger of the paper absorbing moisture in any climate. When the tape is wanted for use the tin box itself can be heated with a blow-lamp or can be dropped into a small pan of hot paraffine which immediately melts the paraffine in which the paper is packed and at the same time warms the tape. This makes it ready for the jointer to use under the best conditions, as it will be perfectly free from moisture and will be warm, soft and pliable. This tape has been used in jointing paper cables of all tensions from 100 to 15,000 volts and has given perfect satisfaction.

No. 67 Insulating Compound

For filling cable joints, end bells, and similar work, No. 67 Insulating Compound is manufactured. This material is fluid at 212° F. (boiling point of water) and will not crack at 0° F. It is strongly adhesive, does not corrode copper, and does not check or crack in cooling like paraffine. Guaranteed for 25,000 volt work.

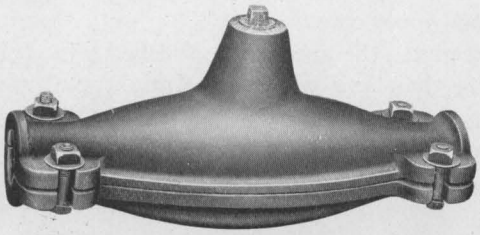
Description	List Price per Pound
Splicing gum, ½″ wide, 1 lb. package (2 rolls per package)	$1.50
Splicing gum, ⅜″ wide, ½ lb. package	1.50
Splicing gum, 1″ wide, 1 lb. package	1.50
Pure gum faced tape, ½″ wide, 1 lb. package (2 rolls per package)	3.30
Pure gum faced tape, ¾″ wide, ½ lb. package	3.30
Pure gum faced tape, 1″ wide, 1 lb. package	3.30
Varnished cambric, cut on bias (in strips)	1.20
Varnished cambric, cut straight (in rolls)	.90
Treated paper tape, 1″ wide	.40
No. 67 insulating compound, 9 lb. package	.30

COPPER CABLE CONNECTORS

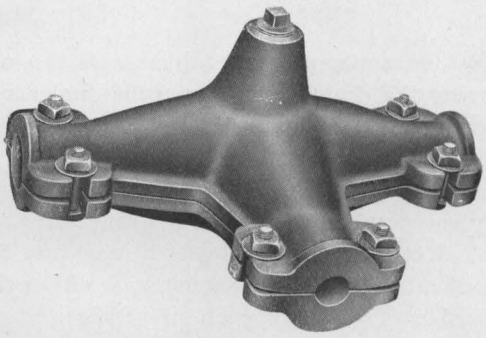
These joints are made from seamless drawn copper tubing of 98% conductivity and are thoroughly tinned. The ends are chamfered, removing all sharp edges, and a slot is provided for soldering. The copper section of the joint is guaranteed to be the full equivalent of the copper section of the cable.

Size	List Price per 100	Size	List Price per 100	Size	List Price per 100
8 B.&S.	$20.00	150,000 C.M.	$30.00	600,000 C.M.	$100.00
6 B.&S.	20.00	000 B.&S.	30.00	650,000 C.M.	100.00
5 B.&S.	20.00	200,000 C.M.	40.00	700,000 C.M.	120.00
4 B.&S.	20.00	0000 B.&S.	40.00	750,000 C.M.	120.00
3 B.&S.	20.00	250,000 C.M.	40.00	800,000 C.M.	130.00
2 B.&S.	20.00	300,000 C.M.	50.00	900,000 C.M.	130.00
1 B.&S.	20.00	350,000 C.M.	50.00	1,000,000 C.M.	140.00
100,000 C.M.	30.00	400,000 C.M.	60.00	1,250,000 C.M.	150.00
0 B.&S.	30.00	450,000 C.M.	60.00	1,500,000 C.M.	210.00
125,000 C.M.	30.00	500,000 C.M.	80.00	2,000,000 C.M.	270.00
00 B.&S.	30.00	550,000 C.M.	80.00		

CAST IRON COUPLING AND TEE BOXES FOR CABLES



STRAIGHT BOX



TEE BOX

The General Electric Company manufactures a full line of split cast iron coupling and tee boxes for use with either single or multiple conductor cables, for burial direct in the earth or for conditions where a substitute for the lead sleeve is desired. These boxes have a groove in the flange for a jute packing to make the box compound tight. They are also provided with a filling hole closed by a standard pipe plug.

In ordering boxes the customer should specify the next size larger than the diameter of the cable with which they are to be used; the difference in diameter being taken up by several wraps of well tarred burlap. When C.L.A.I. cables are used the boxes should be large enough to clamp over the band steel armor.

No. 67 Filling Compound is recommended for use with these boxes.

LIST PRICES

Max. Over All Dia. of Cable	Length of Box	Cat. No.	Straight Box		Tee Box		
			Compound Required in Lbs.	List Price	Cat. No.	Compound Required in Lbs.	List Price
1½	12″	46130	2	**$2.15**	46137	3	**$3.20**
1¾	16″	46131	4¾	**3.30**	46138	7	**4.90**
2	17″	46132	5¾	**3.50**	46139	8	**5.25**
2½	19″	46133	8½	**4.00**	46140	12	**6.00**
2½	20½″	46134	12¼	**5.60**	46141	18	**8.40**
2½	22″	46135	13	**6.25**	46142	19	**9.30**
3	23″	46136	15	**6.75**	46143	21	**10.00**

WIRE AND CABLE

Stranding Table

The accompanying table shows the standard concentric strands of different sizes of cables, giving the diameter of the individual wires, the diameter of the finished copper core and the approximate weight in pounds per thousand feet of the copper core.

Special attention is called to the full copper area given, the area of the finished cable being the area of the individual wires cut at right angles to their axis when laid straight, multiplied by the number of wires in a strand.

Extra flexible cables of almost any stranding may be supplied. Prices will be quoted on application. Customer must state either the size wire which it is desired to use in a strand or the number of wires for each size cable.

It should be noted that extra flexible strands increase the cost of cable; first—the diameter is larger than the regular concentric strand, thus increasing the amount of insulation required; second—the wires are finer and in consequence the cost of copper is higher, and third, an additional cost for labor in stranding the cables.

Size	Number of Wires in Strand	Diameter of Individual Wires in Inches	Diameter of Bare Cable in Inches	Approx. Weight of Copper per 1000 Ft. in Lbs.
14 B.& S.	7	.0243	.0729	13
12 B.& S.	7	.0306	.0918	20
10 B.& S.	7	.0386	.1158	32
8 B.& S.	7	.0485	.1455	51
6 B.& S.	7	.0613	.1839	81
5 B.& S.	7	.0688	.2064	103
4 B.& S.	7	.0773	.2319	129
3 B.& S.	7	.0868	.2604	164
2 B.& S.	7	.0974	.2922	206
1 B.& S.	19	.0664	.3320	259
0 B.& S.	19	.0746	.3750	328
00 B.& S.	19	.0838	.4190	414
000 B.& S.	19	.094	.4700	520
0000 B.& S.	19	.1056	.5280	658
250,000 Cm.	37	.0823	.5754	775
300,000 Cm	37	.0906	.6342	943
350,000 Cm.	37	.0974	.6818	1087
400,000 Cm.	37	.104	.7280	1242
450,000 Cm.	37	.111	.7770	1415
500,000 Cm.	61	.0906	.8154	1554
550,000 Cm.	61	.095	.8550	1709
600,000 Cm.	61	.0992	.8928	1864
650,000 Cm.	61	.1033	.9297	2020
700,000 Cm.	61	.1072	.9648	2177
750,000 Cm.	61	.111	.9990	2333
800,000 Cm.	61	.1146	1.0314	2487
900,000 Cm.	61	.1216	1.0944	2813
1,000,000 Cm.	61	.1281	1.1529	3110
1,250,000 Cm.	91	.1173	1.2903	3888
1,500,000 Cm.	91	.1284	1.4124	4660
1,750,000 Cm.	127	.1173	1.5262	5435
2,000,000 Cm.	127	.1255	1.6315	6212

WIRE AND CABLE

Special Finishes

These are applied to leaded cables for the preservation of the lead from corrosion and mechanical injury.

It should be noted that braided cables can be supplied with asbestos braids where it is desirable to flameproof them.

The C.L.A. finish (conductor, lead, asphalt) consists of a regular leaded cable protected as follows:

1st—Coat of compound.
2d—Wrap of treated paper.
3d—Coat of compound.
4th—Wrap of tarred jute.
5th—Coat of compound.
6th—Wrap of tarred jute.
7th—Coat of compound.
8th—Coat of whitening and water, to prevent adhesion of the tarred jute outer wrap when the cable is wound on a reel.

The C.L.A.I. finish (conductor, lead, asphalt, iron) is like the C.L.A. with the addition of a double steel taping which is placed between the two jute wraps. Steel tapes are put on with butted joints, and the outer tape covers the joint in the inner tape.

The C.L.A.W. finish (conductor, lead, asphalt, wire) contains galvanized steel wire armor placed between the jutes, instead of the band steel armor above mentioned.

The jute and asphalt jacket is recommended for use in mines, in wet ducts, and also under ground where it can be protected from mechanical injury by laying a tile or board over it.

The band steel armor cable is the well-known English and Continental type of cable for use under-ground without conduit. It is also a very good type of cable for mine work in horizontal runs where cable is liable to mechanical injury.

The C.L.A.W. or wire armor type is the standard type for submarine work and for suspending in vertical mine shafts where the weight of the cable can be carried by the armor.

It should be noted that these last two finishes when applied to two-conductor cable, require that the two conductors be twisted together with a jute filler to make up a circular section, since these types of armor cannot be applied to an oval lead cable.

The C.L.A. and C.L.A.I. types are especially useful as service cables in connection with a conduit system.

The asbestos braided finish is put on over the regular braid and is filled with a special non-inflammable dark green paint; it can also be finished white, if desired. This finish is especially desirable for station wiring as it protects one cable from an arc in an adjoining cable, and also prevents flame from following along the outside braid.

To determine the list price of any leaded cable with a C.L.A., C.L.A.I. or C.L.A.W. finish over the lead, add to the list price of the leaded cable the list price of the desired finish for a cable of the nearest corresponding diameter.

To get the list price of any cable asbestos braided, add to the price of the braided finish given in the list, the price for asbestos braiding for the nearest diameter to that given for the ordinary braided cable.

WIRE AND CABLE

Special Finishes—Continued

Dia. over Lead or Braid, in Ins.	Asbestos Braid and Paint Add. Dia. 1/10 In.		Asphalted Jute Add. Dia. 3/10 In.		Asphalted Jute and Band Iron				Asphalted Jute and Wire Armor			
	Wt. in Lbs.	List Price per 1000 Ft.	Wt. in Lbs.	List Price per 1000 Ft.	Wt. in Lbs.	Thick. Band Iron	Add. Dia. Ins.	List Price per 1000 Ft.	Wt. in Lbs.	Size Wire	Add. Dia. Ins.	List Price per 1000 Ft.
.30	43	$ 17.00	86	$20.50					655	.091	.60	$ 86.00
.35	50	19.50	97	21.00					720	.091	.60	92.00
.40	57	22.00	105	22.00					783	.091	.60	98.00
.45	65	25.00	117	22.50					826	.091	.60	102.00
.50	72	27.50	126	23.50	748	.030	.60	$101.00	1171	.128	.68	132.50
.55	79	32.00	136	27.00	791	.030	.60	112.00	1234	.128	.68	142.00
.60	86	34.50	146	28.00	843	.030	.60	116.50	1298	.128	.68	148.00
.65	93	37.50	155	28.50	882	.030	.60	120.50	1362	.128	.68	153.50
.70	100	40.00	165	29.50	927	.030	.60	125.00	1426	.128	.68	159.50
.75	108	42.50	177	30.50	974	.030	.60	129.50	1664	.144	.70	180.50
.80	115	48.00	188	32.00	1020	.030	.60	140.50	1741	.144	.70	191.50
.85	123	51.00	198	33.00	1065	.030	.60	145.00	1818	.144	.70	199.00
.90	129	53.00	207	33.50	1107	.030	.60	149.00	1891	.144	.70	205.50
.95	137	56.00	217	34.50	1153	.030	.60	153.50	1968	.144	.70	212.50
1.00	144	58.00	227	35.00	1198	.030	.60	159.00	2045	.144	.70	220.00
1.10	158	67.50	248	37.00	1286	.030	.60	167.50	2196	.144	.70	234.00
1.20	173	72.50	266	38.00	1374	.030	.60	176.00	2348	.144	.70	247.50
1.30	188	78.00	287	41.50	1465	.030	.60	191.50	2980	.182	.80	306.00
1.40	200	83.50	308	43.50	1555	.030	.60	200.50	3202	.182	.80	326.50
1.50	215	89.00	327	45.00	1643	.030	.60	211.00	3421	.182	.80	348.00
1.60	230	96.00	347	46.50	2454	.050	.70	296.00	3562	.182	.80	361.00
1.70	245	101.00	368	48.50	2580	.050	.70	308.50	3785	.182	.80	381.00
1.80	258	107.50	387	52.00	2703	.050	.70	329.00	3913	.182	.80	401.00
1.90	273	113.00	407	54.00	2828	.050	.70	341.50	4134	.182	.80	421.00
2.00	288	118.00	428	57.00	2953	.050	.70	354.00	4265	.182	.80	432.50
2.10	303	123.00	447	58.50	3076	.050	.70	367.00	4952	.204	.85	494.50
2.20	315	127.00	468	60.50	3202	.050	.70	379.00	5107	.204	.85	508.50
2.30	330	132.00	488	64.50	3326	.050	.70	399.00	5936	.204	.85	591.00
2.40	345	137.00	507	66.00	3450	.050	.70	411.50	6119	.204	.85	607.50
2.50	360	143.00	528	67.50	3575	.050	.70	424.00	6303	.204	.85	624.00

WIRE AND CABLE

Maximum Length of Cable that Can Be Shipped on Standard Reels

Diameter Cable Over All—in Inches	Length of Cable per Reel				
	Reel No. 6, 24" x 12"—Feet	Reel No. 5, 30" x 21"—Feet	Reel No. 4, 48" x 24"—Feet	Reel No. 3, 60" x 24"—Feet	Reel No. 2, 60"x 41"—Feet
.25	1500	5500	9000		
.30	1050	3900	8000		
.35	790	2850	7000		
.40	600	2075	6000	9700	
.45	480	1675	5000	7500	
.50	365	1375	4000	6100	
.55	260	1100	3400	5100	9900
.60	240	890	2930	4400	8300
.65	220	785	2430	3700	7150
.70	165	650	2120	3180	6100
.75	145	580	1760	2650	5200
.80		550	1460	2200	4400
.90		410	1180	1780	3580
1.00		300	1000	1500	3000
1.10			830	1250	2500
1.20			730	1100	2200
1.30			600	900	1750
1.40			530	800	1600
1.50			430	650	1300
1.60				550	1100
1.70				490	1000
1.80				420	850
1.90				400	800
2.00				375	725
2.25				270	550
2.50				220	460
3.00				165	360
Approx. weight of cable per reel	175 lbs.	500 lbs.	1500 lbs.	2500 lbs.	5000 lbs.
Approx. weight of empty reel	24 "	70 "	190 "	345 "	415 "
Approx. weight of reel with slats	36 "	100 "	240 "	495 "	650 "

WIRE AND CABLE

Weight of Pure Copper Wire

No. B.&S.	Diameter Mils	Area Circular Mils	Weight, Bare Wire		No. B.&S.	Diameter Mils	Area Circular Mils	Weight, Bare Wire	
			Pounds per 1000 Feet	Pounds per Mile				Pounds per 1000 Feet	Pounds per Mile
0000	460.000	211600.0	640.73	3383.04	19	35.890	1288.09	3.90	20.594
000	409.640	167805.0	508.12	2682.85	20	31.961	1021.44	3.09	16.331
00	364.800	133079.0	402.97	2127.66	21	28.462	810.09	2.45	12.952
0	324.950	105592.5	319.74	1688.20	22	25.347	642.47	1.95	10.272
1	289.300	83694.5	253.43	1338.10	23	22.571	509.45	1.54	8.145
2	257.630	66373.2	200.98	1061.17	24	20.100	404.01	1.22	6.4593
3	229.420	52633.5	159.38	841.50	25	17.900	320.41	.97	5.1227
4	204.310	41742.6	126.40	667.38	26	15.940	254.08	.77	4.0623
5	181.940	33102.2	100.23	529.23	27	14.195	201.50	.61	3.2215
6	162.020	26250.5	79.49	419.69	28	12.641	159.80	.48	2.5548
7	144.280	20816.7	63.03	332.82	29	11.257	126.72	.38	2.0260
8	128.490	16509.7	49.99	263.96	30	10.025	100.50	.30	1.6068
9	114.430	13094.2	39.65	209.35	31	8.928	79.71	.24	1.2744
10	101.890	10381.6	31.44	165.98	32	7.950	63.20	.19	1.0105
11	90.742	8234.11	24.93	131.65	33	7.080	50.13	.15	.8014
12	80.808	6529.94	19.77	104.40	34	6.304	39.74	.12	.6354
13	71.961	5178.39	15.68	82.792	35	5.614	31.52	.10	.5039
14	64.084	4106.76	12.44	65.658	36	5.000	25.00	.08	.3997
15	57.068	3256.76	9.86	52.069	37	4.453	19.83	.06	.3170
16	50.820	2582.67	7.82	41.292	38	3.965	15.72	.05	.2513
17	45.257	2048.20	6.20	32.746	39	3.531	12.47	.04	.1993
18	40.303	1624.33	4.92	25.970	40	3.144	9.88	.03	.1580

Resistance of Pure Copper Wire

No. B.&S.	Resistance at 75° Fahrenheit			No. B.&S.	Resistance at 75° Fahrenheit		
	Ohms per 1000 Feet	Ohms per Mile	Feet per Ohm		Ohms per 1000 Feet	Ohms per Mile	Feet per Ohm
0500	.04904	.25891	2093.92	19	8.0555	42.5329	124.14
000	.06184	.32649	16172.1	20	10.1584	53.6362	98.44
00	.07797	.41168	12825.4	21	12.8088	67.6302	78.07
0	.09827	.51885	10176.4	22	16.1504	85.2743	61.92
1	.12398	.65460	8066.0	23	20.3674	107.540	49.10
2	.15633	.82543	6396.7	24	25.6830	135.606	38.94
3	.19714	1.04090	5072.5	25	32.3833	170.984	30.88
4	.24858	1.31248	4022.9	26	40.8377	215.623	24.49
5	.31346	1.65507	3190.2	27	51.4952	271.895	19.42
6	.39528	2.08706	2529.9	28	64.9344	342.854	15.40
7	.49845	2.63184	2006.2	29	81.8827	432.341	12.21
8	.62849	3.31843	1591.1	30	103.245	545.133	9.686
9	.79242	4.18400	1262.00	31	130.176	687.327	7.682
10	.99948	5.27726	1000.50	32	164.174	866.837	6.091
11	1.26020	6.65357	793.56	33	207.000	1092.96	4.831
12	1.5890	8.39001	629.32	34	261.099	1378.60	3.830
13	2.0037	10.57980	499.06	35	329.225	1738.31	3.037
14	2.5266	13.34050	395.79	36	415.047	2191.45	2.409
15	3.1860	16.8223	313.87	37	523.278	2762.91	1.911
16	4.0176	21.2130	248.90	38	660.011	3484.86	1.515
17	5.0660	26.7485	197.39	39	832.228	4394.16	1.2020
18	6.3880	33.7285	156.54	40	1049.718	5542.51	.9526

WIRE AND CABLE

Comparative Gauge Table

Table of wire gauges showing the comparative ratings of the Brown & Sharpe, or American (B.&S.), the Birmingham (B.W.G.), and the British Standard (S.W.G.) wire gauges.

Gauge Numbers			Diameter in Inches			Gauge Numbers			Diameter in Inches		
B.& S.	B.W.G.	S.W.G.	B.& S.	B.W.G.	S.W.G.	B.& S.	B.W.G.	S.W.G.	B.& S.	B.W.G.	S.W.G.
0000	0000	000000	.4600	.454	.464	19	20	20	.0359	.035	.036
	000	00000		.425	.432	20	21	21	.0320	.032	.032
000		0000	.4096		.400	21	22	22	.0285	.028	.028
00	00	000	.3648	.380	.372	22	23	23	.0253	.025	.024
	0	00		.340	.348	23	24	24	.0226	.022	.022
0		0	.3249		.324	24	25	25	.0201	.020	.020
	1	1		.300	.300	25	26	26	.0179	.018	.018
1	2	2	.2893	.284	.276	26	27	27	.0159	.016	.0164
2	3	3	.2576	.259	.252	27	28	28	.0142	.014	.0148
3	4	4	.2294	.238	.232		29	29		.013	.0136
	5	5		.220	.212	28	30	30	.0126	.012	.0124
4	6	6	.2043	.203	.192	29		31	.0113		.0116
5	7	7	.1819	.180	.176			32			.0108
6	8	8	.1620	.165	.160	30	31	33	.0100	.010	.0100
7	9	9	.1443	.148	.144	31	32	34	.0089	.009	.0092
8	10	10	.1285	.134	.128	32	33	35	.0080	.008	.0084
9	11	11	.1144	.120	.116	33	34	36	.0071	.007	.0076
10	12	12	.1019	.109	.104			37			.0068
11	13	13	.0907	.095	.092	34		38	.0063		.0060
12	14	14	.0808	.083	.080	35		39	.0056		.0052
13	15	15	.0720	.072	.072	36	35	40	.0050	.005	.0048
14	16	16	.0641	.065	.064	37		41	.0045		.0044
15	17	17	.0571	.058	.056	38	36	42	.0040	.004	.0040
16	18	18	.0508	.049	.048	39		43	.0035		.0036
17	19		.0453	.042				44			.0032
18		19	.0403		.040	40		45	.0031		.0028

Common Fractions and Their Decimal Equivalents

Fraction	Decimal	Fraction	Decimal	Fraction	Decimal	Fraction	Decimal
$\frac{1}{64}$	.0156	$\frac{33}{64}$	.5156	$\frac{17}{64}$	.2656	$\frac{49}{64}$	.7656
$\frac{1}{32}$	.0313	$\frac{17}{32}$	.5313	$\frac{9}{32}$	.2813	$\frac{25}{32}$	.7813
$\frac{3}{64}$	.0469	$\frac{35}{64}$	.5469	$\frac{19}{64}$	.2969	$\frac{51}{64}$	.7969
$\frac{1}{16}$	.0625	$\frac{9}{16}$	.5625	$\frac{5}{16}$	.3125	$\frac{13}{16}$	.8125
$\frac{5}{64}$	.0781	$\frac{37}{64}$	.5781	$\frac{21}{64}$	.3281	$\frac{53}{64}$	.8281
$\frac{3}{32}$	.0938	$\frac{19}{32}$	.5938	$\frac{11}{32}$	.3438	$\frac{27}{32}$	.8438
$\frac{7}{64}$	.1094	$\frac{39}{64}$	.6094	$\frac{23}{64}$	.3594	$\frac{55}{64}$	.8594
$\frac{1}{8}$	.1250	$\frac{5}{8}$	.6250	$\frac{3}{8}$	.3750	$\frac{7}{8}$	.8750
$\frac{9}{64}$	.1406	$\frac{41}{64}$	.6406	$\frac{25}{64}$	.3906	$\frac{57}{64}$	.8906
$\frac{5}{32}$	.1563	$\frac{21}{32}$	.6563	$\frac{13}{32}$	.4063	$\frac{29}{32}$	.9063
$\frac{11}{64}$	.1719	$\frac{43}{64}$	.6719	$\frac{27}{64}$	.4219	$\frac{59}{64}$	.9219
$\frac{3}{16}$	.1875	$\frac{11}{16}$	.6875	$\frac{7}{16}$	.4875	$\frac{15}{16}$	.9375
$\frac{13}{64}$	.2031	$\frac{45}{64}$	.7031	$\frac{29}{64}$	.4531	$\frac{61}{64}$	.9531
$\frac{7}{32}$	.2188	$\frac{23}{32}$	.7188	$\frac{15}{32}$	.4688	$\frac{31}{32}$	.9688
$\frac{15}{64}$	.2344	$\frac{47}{64}$	.7344	$\frac{31}{64}$	.4844	$\frac{63}{64}$	.9844
$\frac{1}{4}$	.2500	$\frac{3}{4}$	.7500	1	.5000	1	1.0000

INCANDESCENT LAMPS

Main Lamp Sales Offices, Harrison, N. J.

The General Electric Company manufactures and is ready to furnish incandescent lamps of all types, in standard candle powers, voltages and efficiencies, suitable for any purpose. The list comprises the following types:

Standard Multiple Lighting Lamps 20 to 44 volts, 45 to 130 volts, 200 to 250 volts, in any candle power.

Meridian Lamps and Reflectors in 100 to 130 volts and 200 to 250 volts.

G. E. High Efficiency Units with reflectors 100 to 130 volts.

Street Series Incandescent Lamps 1.75 to 10 amperes.

Miniature Lamps in all classes including Candelabra, Decorative and Battery Types.

Complete information regarding any particular type of lamp, with prices, will be sent on application to any one of the Company's district offices, or the Main Lamp Sales Offices, Harrison, N. J.

BRASS WIRE CLEATS



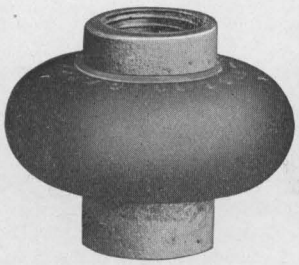
Cat. No. 15100



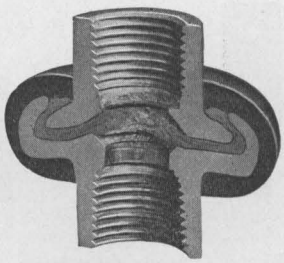
Cat. No. 15102

Cat. No.	Description	Package Quantity	List Price per 1000
15118	For $\frac{3}{16}''$ diameter wire	250	$ 6.50
15100	For $\frac{3}{8}''$ diameter wire	250	8.50
15103	For $\frac{1}{2}''$ diameter wire	250	10.00
15108	For $\frac{11}{16}''$ diameter wire	250	15.00
15102	Corner cleat, for $\frac{3}{8}''$ diameter wire	250	7.50
15104	Corner cleat, for $\frac{1}{2}''$ diameter wire	250	8.00
15116	Corner cleat, for $\frac{11}{16}''$ diameter wire	250	12.50

INSULATING JOINTS FOR GAS PIPES



INSULATING JOINT



SECTION THROUGH JOINT

The Insulating Joints shown in the accompanying illustration embody the necessary strength, high insulation and compactness which are required of a thoroughly satisfactory line of insulating joints. The design of these joints is such that the two nozzles are well insulated from each other by means of mica cups. A very high factor of safety over any strain which would be placed on these joints is obtained by the metal parts being crimped together after the mica cups are placed in position. These joints are small and compact, thus occupying a minimum amount of space in the fixture canopy.

Insulating Joints

Composition		Malleable Iron		Description
Cat. No.	List Price	Cat. No.	List Price	
9189	$0.50	9190	$0.45	For $\frac{3}{8}$ x $\frac{1}{8}$″ gas pipe
9191	.50	9192	.45	For $\frac{3}{8}$ x $\frac{1}{4}$″ gas pipe
9193	.50	9194	.45	For $\frac{3}{8}$ x $\frac{3}{8}$″ gas pipe
9340	.66$\frac{2}{3}$	9341	.60	For $\frac{3}{8}$ x $\frac{1}{2}$″ gas pipe
9362	.66$\frac{2}{3}$	9363	.60	For $\frac{1}{4}$ x $\frac{1}{2}$″ gas pipe
9342	.66$\frac{2}{3}$	9343	.60	For $\frac{1}{2}$ x $\frac{1}{2}$″ gas pipe
39045	1.00	39051	.90	For $\frac{3}{4}$ x $\frac{3}{8}$″ gas pipe
39046	1.00	39052	.90	For $\frac{3}{4}$ x $\frac{1}{2}$″ gas pipe
39047	1.00	39053	.90	For $\frac{3}{4}$ x $\frac{3}{4}$″ gas pipe
39048	1.60	39054	1.45	For 1 x $\frac{1}{2}$″ gas pipe
39049	1.60	39055	1.45	For 1 x $\frac{3}{4}$″ gas pipe
39050	1.60	39056	1.45	For 1 x 1″ gas pipe

Blank Insulating Joints for Use with Hickeys

39057	$0.50	39066	$0.45	For $\frac{3}{8}$ x $\frac{1}{8}$″ gas pipe
39058	.50	39067	.45	For $\frac{3}{8}$ x $\frac{1}{4}$″ gas pipe
39059	.50	39068	.45	For $\frac{3}{8}$ x $\frac{3}{8}$″ gas pipe
39060	.66$\frac{2}{3}$	39069	.60	For $\frac{1}{2}$ x $\frac{1}{8}$″ gas pipe
39061	.66$\frac{2}{3}$	39070	.60	For $\frac{1}{2}$ x $\frac{1}{4}$″ gas pipe
39062	.66$\frac{2}{3}$	39071	.60	For $\frac{1}{2}$ x $\frac{3}{8}$″ gas pipe
39063	.66$\frac{2}{3}$	39072	.60	For $\frac{1}{2}$ x $\frac{1}{2}$″ gas pipe
39064	1.00	39073	.90	For $\frac{3}{4}$ x $\frac{1}{2}$″ gas pipe
39065	1.00	39074	.90	For $\frac{3}{4}$ x $\frac{3}{4}$″ gas pipe

Malleable Iron Hickeys

Cat. No.	Description	List Price	Cat. No.	Description	List Price	Cat. No.	Description	List Price
39075	For $\frac{1}{4}$ x $\frac{1}{8}$″ gas pipe	0.07\frac{1}{2}$	39078	For $\frac{3}{8}$x$\frac{1}{4}$″ gas pipe	$0.10	39080	For $\frac{1}{2}$x$\frac{1}{2}$″ gas pipe	0.12\frac{1}{2}$
39076	For $\frac{1}{4}$ x $\frac{1}{4}$″ gas pipe	.07$\frac{1}{2}$	39079	For $\frac{3}{8}$x$\frac{3}{8}$″ gas pipe	.10	39081	For $\frac{3}{4}$x$\frac{1}{2}$″ gas pipe	.17$\frac{1}{2}$
39077	For $\frac{3}{8}$ x $\frac{1}{8}$″ gas pipe	.10						

WROUGHT COPPER CABLE TERMINALS

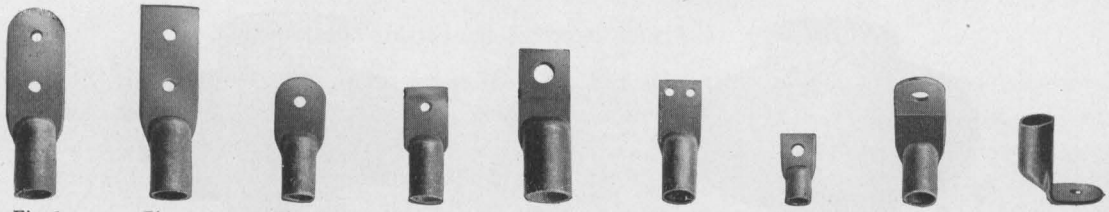


Fig. 1 Fig. 2 Fig. 3 Fig. 4 Fig. 5 Fig. 6 Fig. 7 Fig. 8 Fig. 9

The General Electric Company is prepared to furnish Wrought Copper Cable Terminals, as shown in the accompanying illustrations. They are neat in appearance, have sufficient current carrying capacity, good contact area, and are much smaller than the cast terminal on account of the high conductivity of the metal.

These terminals are divided into four classes. The first two classes are designed for mounting on the current carrying studs, while the third and fourth classes are designed for bolting to flat surfaces, where the contact bolt does not necessarily carry the current.

To facilitate the ordering of these terminals, the following catalogue numbers have been assigned.

Class 1

Terminals with Rounded End for Mounting on Current Carrying Studs, with One Stud Hole

Package Quantity	Cat. No.	Amp. Capacity Rubber Insulated Conductors N. E. C. Standard	Max. Size B.&S. Gauge		Diameter Stud Hole in Inches	Width of Flat Portion in Inches	Total Length in Inches	Figure	List per 100
			Wire	Cable					
100	41074	17	12	12	17/64	1/2	7/8	3	$ 4.00
100	32534	33	8	1	9/32	.263	1 11/16	3	4.00
100	41075	33	8	10	17/64	1/2	1	3	4.25
100	41082	33	8	10	11/32	5/8	1 1/16	3	4.25
100	41076	33	8	10	11/32	3/4	1 5/16	3	4.50
100	41078	33	8	10	17/32	1.	1 5/8	3	6.25
100	32535	50	5	6	9/16	.356	1 3/16	3	4.50
100	41081	50	5	6	11/32	5/8	1 1/4	3	4.50
100	41080	50	5	6	11/32	3/4	1 5/16	3	6.00
100	51878	75	3	4	11/32	.464	1 7/16	9	6.00
100	32536	75	3	4	7/32	.464	1 5/8	3	6.00
100	41077	90	2	3	11/32	3/4	1 1/2	3	6.50
100	41079	90	2	3	17/32	1.	1 13/16	3	7.25
100	32537	125	0	1	9/32	.639	1 15/16	3	7.50
100	32538	175	000	0	11/32	.744	2 1/16	3	8.50
100	41070	175	000	00	13/32	.818	2 1/8	3	12.00
50	32539	210	0000	0000	13/32	1.026	2 3/8	3	16.00
50	32540	225		250,000 C.M.	17/32	1.107	2 11/16	3	22.50
50	32541	250		300,000 C.M.	17/32	1.199	3 3/16	3	25.00
25	32542	325		400,000 C.M.	17/32	1.379	3 5/8	3	35.00
25	32543	375		500,000 C.M.	21/32	1.573	4 3/32	3	48.50
25	32544	450		600,000 C.M.	21/32	1.670	4 15/32	3	55.00
25	32545	550		800,000 C.M.	25/32	1.960	5 1/16	3	66.50
25	32546	650		1,000,000 C.M.	25/32	2.190	5 5/8	3	82.50
10	32547	850		1,500,000 C.M.	1 1/32	2.660	6 1/2	3	135.00
10	32548	1050		2,000,000 C.M.	1 1/32	3.053	7 5/8	3	230.00
50	51879	210	0000	0000	17/32	1.026	2	8	20.00
25	51880	325		400.000 C.M.	21/32	1.379	2 1/2	8	41.00

Class 2

With Two Stud Holes

100	36020	33	8	10	5/32	.263	1 1/16	1	$ 5.00
100	36023	50	5	6	9/16	.356	1 3/8	1	7.00
100	36025	75	3	4	7/32	.464	1 5/8	1	8.00
100	36027	125	0	1	9/32	.639	2 1/16	1	9.25
100	36029	175	000	0	11/32	.744	2 1/4	1	10.00
100	36033	175	000	00	13/32	.818	3 1/2	1	16.00
50	36035	210	0000	0000	13/32	1.026	3 1/2	1	20.00
50	36037	225		250,000 C.M.	17/32	1.107	3 15/16	1	26.50
50	36040	250		300,000 C.M.	17/32	1.199	4 1/8	1	28.50
25	36042	325		400,000 C.M.	17/32	1.379	4 11/16	1	45.00
25	36045	375		500,000 C.M.	21/32	1.573	5 1/16	1	65.00
25	36048	450		600,000 C.M.	21/32	1.670	5 5/8	1	66.50
25	36051	550		800,000 C.M.	25/32	1.96	6 1/2	1	81.00
25	36054	650		1,000,000 C.M.	25/32	2.19	7 1/2	1	112.00
10	36057	850		1,500,000 C.M.	1 1/32	2.66	8 5/8	1	175.00
10	36060	1050		2,000,000 C.M.	1 1/32	3.033	9 1/2	1	285.00

WROUGHT COPPER CABLE TERMINALS

Class 3

Terminals with Squared End for Bolting to Flat Surfaces, with One Stud Hole

Package Quantity	Cat. No.	Amp. Capacity Rubber Insulated Conductors N. E. C. Standard	Max. Size B.&S. Gauge		Diameter Stud Hole in Inches	Width of Flat Portion in Inches	Total Length in Inches	Figure	List per 100
			Wire	Cable					
100	36019	33	8	10	5/32	.263	11/16	4	$ 4.00
100	41071	33	8	10	.1695	1/2	7/8	4	4.00
100	36022	50	5	6	3/16	.356	13/16	4	5.00
100	41072	50	5	6	.196	5/8	1 1/4	4	5.00
100	32549	75	3	4	7/32	.464	1 1/8	4	6.00
100	41073	90	2	3	17/64	3/4	1 5/16	4	7.00
100	32550	125	0	1	9/32	.639	1 15/16	4	8.00
100	32551	175	000	0	11/32	.744	2 1/16	4	12.00
100	36032	175	000	00	13/32	.818	2 1/8	4	12.00
50	51883	210	0000	0000	13/32	1.026	2 5/8	4	15.00
100	51884	225		250,000 C.M.	17/32	1.107	2 11/16	4	24.00
50	36039	250		300,000 C.M.	17/32	1.199	3 3/16	4	25.00
25	51885	325		400,000 C.M.	17/32	1.379	3 5/8	4	34.50
25	36044	375		500,000 C.M.	21/32	1.573	4 3/32	4	48.50
25	36047	450		600,000 C.M.	21/32	1.67	4 11/32	4	54.50
20	36050	550		800,000 C.M.	25/32	1.96	5 1/16	4	80.00
25	36053	650		1,000,000 C.M.	29/32	2.19	5 3/8	4	82.50
10	36056	850		1,500,000 C.M.	1 1/32	2.66	6 13/32	4	137.00
10	36059	1050		2,000,000 C.M.	1 1/32	3.03	7 5/8	4	230.00
100	51881	75	3	4	7/16	7/16	2 1/8	*7	7.50
100	51882	125	0	1	.136	.639	1 13/16	6	8.30
25	32553	325		400,000 C.M.	13/32	1	3	5	35.00

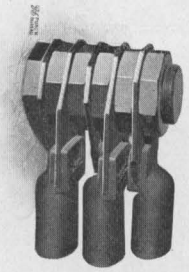
* Has two stud holes, and is evenly offset on both sides.

Class 4

With Two Stud Holes

100	36021	33	8	10	5/32	.263	1 1/16	2	$ 5.00
100	36024	50	5	6	3/16	.356	1 3/8	2	7.00
100	36026	75	3	4	17/32	.464	1 3/8	2	8.00
100	36028	125	0	1	9/32	.639	2 5/16	2	9.50
100	36030	175	000	0	11/32	.744	2 3/4	2	10.00
100	36034	175	000	00	13/32	.818	3 1/8	2	15.50
50	36036	210	0000	0000	13/32	1.026	2 1/2	2	20.00
50	36038	225		250,000 C.M.	13/32	1.107	3 1/16	2	26.50
50	36041	250		300,000 C.M.	17/32	1.199	4 1/8	2	28.50
25	36043	325		400,000 C.M.	17/32	1.379	4 11/16	2	45.00
25	36046	375		500,000 C.M.	21/32	1.573	5 1/16	2	65.00
25	36049	450		600,000 C.M.	21/32	1.67	5 5/8	2	66.50
25	36052	550		800,000 C.M.	25/32	1.96	6 1/2	2	81.00
25	36055	650		1,000,000 C.M.	29/32	2.19	7 1/4	2	110.00
10	36058	850		1,500,000 C.M.	1 1/32	2.66	8 5/8	2	176.00
10	36061	1050		2,000,000 C.M.	1 1/32	3.03	9 1/2	2	285.00
50	32554	450		600,000 C.M.	13/32	1 5/8	4	5	50.00
10	32555	850		1,500,000 C.M.	17/32	2	6	5	135.00

CABLE TERMINALS FOR CONNECTING A NUMBER OF CABLES TO ONE CONTACT STUD



Size of Cable	Dimensions in Inches		Style	Cat. No.	List Price
	Diam. of Stud Hole	Diam. of Cable Hole			
1500000	1–$\frac{9}{16}$	1–$\frac{1}{2}$	Side	26797	$700.00
1500000	1–$\frac{13}{16}$	1–$\frac{1}{2}$	"	27448	700.00
1500000	2–$\frac{1}{16}$	1–$\frac{1}{2}$	"	27449	700.00
1500000	2–$\frac{5}{16}$	1–$\frac{1}{2}$	"	26799	700.00
1500000	2–$\frac{9}{16}$	1–$\frac{1}{2}$	"	30983	750.00
1500000	2–$\frac{13}{16}$	1–$\frac{1}{2}$	"	30984	750.00
1500000	3–$\frac{5}{16}$	1–$\frac{1}{2}$	"	30985	750.00
1500000	4–$\frac{1}{16}$	1–$\frac{1}{2}$	"	30986	800.00
1500000	1–$\frac{9}{16}$	1–$\frac{1}{2}$	Center	30987	725.00
1500000	1–$\frac{13}{16}$	1–$\frac{1}{2}$	"	30988	725.00
1500000	2–$\frac{1}{16}$	1–$\frac{1}{2}$	"	27450	725.00
1500000	2–$\frac{5}{16}$	1–$\frac{1}{2}$	"	26798	725.00
1500000	2–$\frac{9}{16}$	1–$\frac{1}{2}$	"	30989	750.00
1500000	2–$\frac{13}{16}$	1–$\frac{1}{2}$	"	30990	800.00
1500000	3–$\frac{5}{16}$	1–$\frac{1}{2}$	"	30991	800.00
1500000	4–$\frac{1}{16}$	1–$\frac{1}{2}$	"	30992	800.00
2000000	1–$\frac{9}{16}$	1–$\frac{3}{4}$	Side	30993	700.00
2000000	1–$\frac{13}{16}$	1–$\frac{3}{4}$	"	30994	700.00
2000000	2–$\frac{1}{16}$	1–$\frac{3}{4}$	"	30995	700.00
2000000	2–$\frac{5}{16}$	1–$\frac{3}{4}$	"	30996	700.00
2000000	2–$\frac{9}{16}$	1–$\frac{3}{4}$	"	27452	750.00
2000000	2–$\frac{13}{16}$	1–$\frac{3}{4}$	"	26948	750.00
2000000	3–$\frac{5}{16}$	1–$\frac{3}{4}$	"	26950	800.00
2000000	4–$\frac{1}{16}$	1–$\frac{3}{4}$	"	26952	800.00
2000000	1–$\frac{9}{16}$	1–$\frac{3}{4}$	Center	30997	725.00
2000000	1–$\frac{13}{16}$	1–$\frac{3}{4}$	"	30998	725.00
2000000	2–$\frac{1}{16}$	1–$\frac{3}{4}$	"	30999	725.00
2000000	2–$\frac{5}{16}$	1–$\frac{3}{4}$	"	31691	725.00
2000000	2–$\frac{9}{16}$	1–$\frac{3}{4}$	"	27453	750.00
2000000	2–$\frac{13}{16}$	1–$\frac{3}{4}$	"	26949	750.00
2000000	3–$\frac{5}{16}$	1–$\frac{3}{4}$	"	26951	800.00
2000000	4–$\frac{1}{16}$	1–$\frac{3}{4}$	"	31692	800.00

CONTACT NUTS

Dimensions in Inches			Tap	Shape	Cat. No.	List Price
Diameter Across Flats	Diameter Across Corners	Thickness				
$\frac{1}{2}$	$\frac{9}{16}$	$\frac{1}{4}$	$\frac{1}{4}$–20	Hex.	23646	$ 2.50
$\frac{19}{32}$	$\frac{11}{16}$	$\frac{1}{4}$	$\frac{5}{16}$–18	"	31734	4.00
$\frac{3}{4}$	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{3}{8}$–16	"	31735	5.50
1–$\frac{1}{16}$	1–$\frac{7}{32}$	$\frac{1}{2}$	$\frac{1}{2}$–13	"	31736	12.50
1– $\frac{3}{8}$	1–$\frac{9}{16}$	$\frac{1}{2}$	$\frac{5}{8}$–11	"	31737	18.50
1–$\frac{13}{16}$	2–$\frac{3}{32}$	$\frac{3}{4}$	$\frac{3}{4}$–12	"	26957	35.00
1–$\frac{13}{16}$	2–$\frac{3}{32}$	1	$\frac{3}{4}$–12	"	26958	42.50
1–$\frac{13}{16}$	2–$\frac{3}{32}$	$\frac{3}{4}$	$\frac{7}{8}$–12	"	31738	35.00
1–$\frac{13}{16}$	2–$\frac{3}{32}$	1	$\frac{7}{8}$–12	"	31739	42.50
2–$\frac{3}{16}$	2–$\frac{17}{32}$	$\frac{3}{4}$	1–12	"	31740	71.50
2–$\frac{3}{16}$	2–$\frac{17}{32}$	1	1–12	"	31741	75.00
2– $\frac{3}{4}$	3–$\frac{3}{16}$	$\frac{3}{4}$	1–$\frac{1}{4}$–12	"	26963	87.50
2– $\frac{3}{4}$	3–$\frac{3}{16}$	1	1–$\frac{1}{4}$–12	"	26964	132.50
2– $\frac{3}{4}$	3–$\frac{3}{16}$	$\frac{3}{4}$	1–$\frac{1}{2}$–12	"	31742	87.50
2– $\frac{3}{4}$	3–$\frac{3}{16}$	1	1–$\frac{1}{2}$–12	"	26971	132.50
3	3–$\frac{7}{16}$	1	1–$\frac{3}{4}$–12	"	26972	185.00
3– $\frac{1}{2}$	4–$\frac{1}{16}$	1	2 –12	"	26973	122.50
3– $\frac{1}{2}$	4–$\frac{1}{16}$	1	2–$\frac{1}{4}$–12	"	26966	122.50
3– $\frac{7}{8}$	4– $\frac{1}{2}$	1	2–$\frac{1}{2}$–12	"	26974	360.00
3– $\frac{7}{8}$	4– $\frac{1}{2}$	1	2–$\frac{3}{4}$–12	"	26967	360.00
4– $\frac{5}{8}$	5	1	3 –12	Oct.	31743	312.50
4– $\frac{5}{8}$	5	1	3–$\frac{1}{4}$–12	"	26968	315.00
5– $\frac{3}{8}$	5–$\frac{13}{16}$	1	3–$\frac{1}{2}$–12	"	31744	450.00
5– $\frac{3}{8}$	5–$\frac{13}{16}$	1	4 –12	"	26969	450.00
6	6– $\frac{1}{2}$	1	4–$\frac{3}{4}$–12	"	31745	450.00

The nuts included in the foregoing table are for use with studs from $\frac{1}{4}$" to 4–$\frac{3}{4}$" in diameter. In some cases two thicknesses of nuts for the same diameter stud are listed. U. S. standard threads are used up to and including nuts with $\frac{5}{8}$"–11 tap, above which twelve threads to the inch are given. All nuts are slightly chamfered on both sides to prevent the corners from scratching the connection bar or terminal. The different sizes of nuts have been decided upon after consideration and will give good results. Nuts larger than 1–$\frac{3}{8}$" across flats are of cast composition metals. Smaller nuts are cut from rod brass.

PORCELAIN INSULATORS



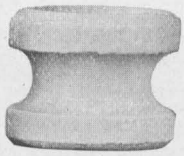
Cat. No. 9247 (No. 6)

Height, $\frac{7}{8}$ inch; diameter, $1\frac{3}{16}$ inch; hole, $\frac{7}{32}$ inch; groove, $\frac{7}{32}$ inch.



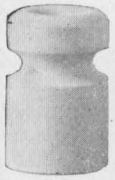
Cat. No. 9248 (No. 8)

Height, $1\frac{1}{16}$ inch; diameter, 1 inch; hole, $\frac{1}{4}$ inch; groove, $\frac{5}{16}$ inch.



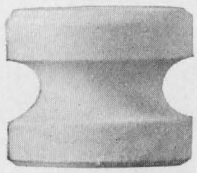
Cat. No. 9249 (No. 11)

Height, $\frac{3}{4}$ inch; diameter, 1 in. hole, $\frac{1}{4}$ inch; groove, $\frac{1}{2}$ inch.



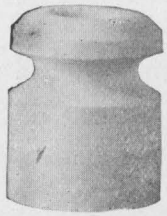
Cat. No. 9250 (No. $5\frac{1}{2}$)

Height, $1\frac{9}{16}$ inches; diameter, 1 inch; hole, $\frac{1}{4}$ inch; groove, $\frac{5}{16}$ inch.



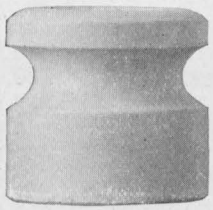
Cat. No. 8708 (No. 16)

Height, 1 inch; diameter, $1\frac{3}{4}$ inches; hole, $\frac{5}{16}$ inch; groove, $\frac{1}{2}$ inch.



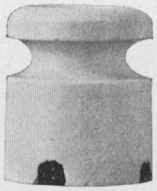
Cat. No. 9251 (No. $4\frac{1}{2}$)

Height, $1\frac{7}{8}$ inches; diameter, $1\frac{1}{2}$ inches; hole, $\frac{5}{16}$ inch; groove $\frac{7}{8}$ inch.



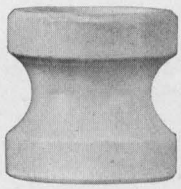
Cat. No. 9252 (No $3\frac{1}{2}$)

Height, 2 inches; diameter, 2 inches; hole, $\frac{7}{16}$ inch; groove, $\frac{5}{8}$ inch.



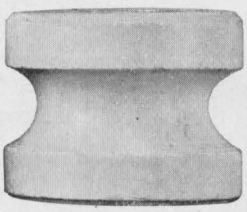
Cat. No. 9253 (No. $10\frac{1}{2}$)

Height, $1\frac{3}{4}$ inches; diameter, $1\frac{5}{8}$ inches; hole, $\frac{3}{8}$ inch; groove, $\frac{3}{8}$ inch.



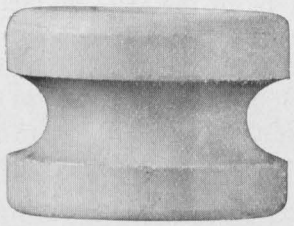
Cat. No. 9254 (No. 36)

Height, $1\frac{3}{4}$ inches; diameter, $1\frac{3}{4}$ inches; hole, $\frac{5}{8}$ inch; groove, $\frac{3}{4}$ inch



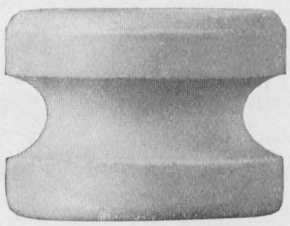
Cat. No. 9255 (No. 24)

Height, $1\frac{3}{4}$ inches; diameter, 2 inches; hole, $\frac{7}{16}$ inch; groove, $\frac{5}{8}$ inch.



Cat. No. 9256 (No. 26)

Height, 2 inches; diameter, $2\frac{1}{2}$ inches; hole, $\frac{5}{8}$ inch; groove, $\frac{5}{8}$ inch.



Cat. No. 9257 (No. 0)

Height, $2\frac{1}{4}$ inches; diameter, 3 inches; hole, $1\frac{1}{4}$ inches; groove 1 inch.

Cat. No.	Description	Package Quantity	List Price per 1000	Cat. No.	Description	Package Quantity	List Price per 1000
9247	No. 6	5000	**$ 9.00**	9252	No. $3\frac{1}{2}$	1000	**$ 34.68**
9248	No. 8	5000	**9.00**	9253	No. $10\frac{1}{2}$	2000	**20.00**
9249	No. 11	3000	**16.00**	9254	No. 36	1800	**36.00**
9250	No. $5\frac{1}{2}$	5000	**9.00**	9255	No. 24	1000	**41.34**
8708	No. 16	500	**26.68**	9256	No. 26	800	**74.68**
9251	No. $4\frac{1}{2}$	2000	**14.00**	9257	No. 0	350	**146.68**

GLASS INSULATORS



Cat. No. 9322



Cat. No. 9315



Cat. No. 9309



Cat. No. 9310



Cat. No. 9311



Cat. No. 9312

Cat. No.	Description	List Price per 1000
9314	Double groove glass insulator	Prices on application
9315	Cable glass insulator	
9309	Deep groove glass insulator	
9310	Deep groove double petticoat insulator	
9311	Extra deep groove double petticoat glass insulator	
9312	Pony deep groove double petticoat glass insulator	
9322	Pony glass insulator	
40271	Transposition glass insulator	

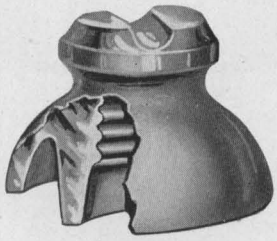
PORCELAIN INSULATORS



Cat. No. 40280



Cat. No. 40273



Cat. No. 40274

Cat. No.	Description	List Price Per 100
40273	Pony porcelain insulator, deep groove, double petticoat . .	**$15.00**
40274	Porcelain insulator, for working voltage up to 3500 volts .	**16.00**
40280	Porcelain feeder insulator	**31.00**

PORCELAIN TUBES

Hole inch	O. S. Diam.	List Price per 100 — Length in Inches Under Head																	
		½	1	1½	2	2½	3	4	5	6	8	10	12	14	16	18	20	22	24
5/16	9/16	$1.15	$1.20	$1.28	$1.36	$1.44	$1.55	$1.70	$3.06	$3.90	$ 7.20	$ 9.60	$14.40	$16.80	$19.20	$21.60	$24.00	$27.60	$31.20
3/8	11/16	1.32	1.35	1.38	1.45	1.56	1.82	1.97	3.60	4.68	8.40	10.80	15.60	19.20	21.60	24.00	26.40	30.00	33.60
7/16	13/16		1.73	1.80	2.00	2.30	2.56	2.80	4.22	5.44	9.60	12.00	16.80	21.60	24.00	28.80	31.20	33.60	36.00
1/2	15/16		2.00	2.20	2.40	2.54	2.80	3.44	5.10	6.22	10.80	14.40	19.20	24.00	28.80	33.60	36.00	38.40	40.80
3/4	1 5/16		2.87	2.95	3.10	3.36	3.62	3.90	5.60	7.00	12.00	16.80	21.60	24.00	31.20	36.00	38.40	43.20	48.00
1	1 7/16			4.55	4.80	4.98	5.24	6.52	8.28	9.34	16.80	19.20	26.40	28.80	36.00	40.80	45.60	49.20	52.80
1¼	1 13/16					12.26	13.80	15.60	18.10	19.20	24.00	31.20	45.60	52.80	62.40	72.00	79.20	86.40	93.60
1½	2 1/16					15.60	17.40	19.20	25.30	31.20	38.40	45.60	69.20	81.60	91.20	102.20	112.80	123.60	134.40
1¾	2 5/16					19.85	22.05	23.95	34.15	45.35	58.10	66.00	102.10	121.40	132.00	158.60	176.15	192.95	210.20
2	2 15/16					23.45	25.85	27.70	41.70	57.95	73.90	81.80	128.00	153.10	163.70	195.10	216.00	237.60	259.20
2¼	3 1/16					26.80	29.60	31.50	48.85	70.55	89.80	97.70	154.00	184.80	195.40	231.40	256.30	282.20	308.20
2½	3 11/16					30.35	32.55	35.30	56.80	83.20	105.60	113.50	180.00	216.50	227.00	267.60	296.60	326.90	357.10

Tube list dimensions conform to the new rules of the Underwriters' Board.

PORCELAIN TUBES

Tube List

Standard Package in Tubes consists as follows:

All lengths up to and including 6 inches long and up to and including ¾-inch hole, barrel lots or same quantity when packed in cases.

All lengths from 7 inches to 14 inches long inclusive and up to and including ¾-inch hole, 500 lots.

All lengths from 14 inches to 24 inches long inclusive and up to and including ¾-inch hole, 200 lots.

All lengths and sizes not specified above, 100 lots.

For Tubes Glazed add 50% to the net prices.

For split Tubes add 25% to the net prices.

CLAY TUBES



Inside Diam.	Outside Diam.	List Price per 1000													
		Length in Inches Under Head													
		1½	2	2½	3	4	6	8	10	12	14	16	18	20	24
5/16	3/8	$6.66	$7.00	$8.32	$8.32	$10.82	$24.16	$36.66	$45.00	$66.66	$80.00	$96.00	$115.00	$143.32	$173.33
3/8	11/16	7.50	8.82	10.00	10.82	13.32	28.32	43.32	53.32	78.32	90.00	106.66	126.66	148.32	180.00
7/16	3/4	8.32	10.82	12.00	13.32	15.66	31.66	50.00	60.00	86.66	98.46	115.00	133.32	156.66	190.00
5/8	1	11.00	13.50	14.82	16.66	20.00	34.24	56.66	66.66	91.66	105.00	125.00	141.66	173.32	216.66
3/4	1 1/8	12.62	16.00	18.32	21.76	24.16	41.66	61.66	73.32	103.32	116.66	140.00	156.64	193.32	240.00
1	1 1/4	15.00	18.32	21.66	27.16	32.50	46.32	66.66	83.32	116.66	140.00	161.66	183.32	206.66	266.66
1 1/4	1 3/4					80.00	100.00	120.00	160.00	240.00	280.00	320.00	366.66	400.00	483.32
1 1/2	2					100.00	160.00	200.00	240.00	360.00	416.66	480.00	533.32	600.00	700.00
1 3/4	2 1/2					120.00	213.32	240.00	280.00	400.00	500.00	600.00	650.00	700.00	900.00

Lots of 1000 and over, of one size, constitute a standard package quantity.

INSULATOR BRACKETS



Cat. No. 8744



Cat. No. 40201



Cat. No. 17194

Of these brackets, Cat. No. 8744 is intended for light feeder wires. Cat. No. 40201 is a heavier bracket with curved back for pole use, and will carry the largest size of feeder. Cat. No. 17194 is extra heavy and is made of gray iron.

Cat. No.	Description	List Price per 100
8744	Side bracket	$16.00
40201	Side bracket, curved back, heavy	23.00
17194	Side bracket, extra heavy	75.00

WOODEN BRACKETS AND PINS



Cat. No. 8747



Cat. No. 8749



Cat. No. 40252

Cat. No.	Description	List Price	Cat. No.	Description	List Price
8745	Bracket, 10″, oak, painted	Prices on application	8841	Bracket, 12″, locust, unpainted	Prices on application
8746	Bracket, 10″, oak, unpainted		8749	Pin, 1½″, oak, painted	
7798	Bracket, 12″, oak, painted		8750	Pin, 1½″, oak, unpainted	
8747	Bracket, 12″, oak, unpainted		8751	Pin, 1½″, locust, unpainted	
8840	Bracket, 10″, locust, unpainted		40252	Pin, 1½″x10″, locust	

RUBBER HOOK

Cat. No.	Description	List Price
8752	Rubber hook, each	Prices on application

POLE STEPS AND LAG SCREWS



Cat. No. 8573

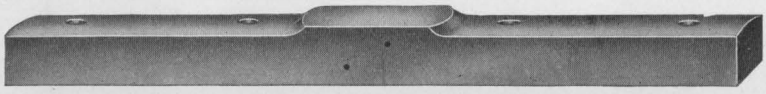


Cat. No. 13060

Cat. No.	Description	List Price
8753	Fetter's drive pole steps, plain, ⅝″x8″, per 100	Prices on application
8754	Fetter's drive pole steps, galvanized, ⅝″x8″, per 100	
8755	Pointed pole step, ⅝″x10″, per 100	
13058	Lag screw, 5/16″x2″, for cross arm braces, per 100	
13059	Lag screw, 5/16″x3″, for cross arm braces, per 100	
13060	Lag screw, ½″x7″, for cross arms, per 100	
13061	Lag screw, ½″x8″, for cross arms, per 100	
10300	Washer for 5/16″ lag screw, per 100 lbs.*	
11671	Washer for ½″ lag screw, per 100 lbs.†	

*Average quantity per 100 lbs., 2683.
†Average quantity per 100 lbs. 1315.

STANDARD WOOD CROSS ARMS



These arms are made of yellow pine $3\frac{1}{4}''$x$4\frac{1}{4}''$, and are given two coats of paint. They are bored for $1\frac{1}{2}''$ pins and $\frac{1}{2}''$ lag screws.

Cat. No.	No. of Pins	Length in Ft.	Spacing in Inches			Weight Lbs.	List Price Each
			Ends	Center	Sides		
40179	2	3	4	28		8	**$0.30**
40180	4	4	4	16	12	12	**.40**
40181	4	5	4	18	17	15	**.50**
40182	4	6	4	24	20	18	**.60**
40183	6	6	4	16	12	18	**.60**

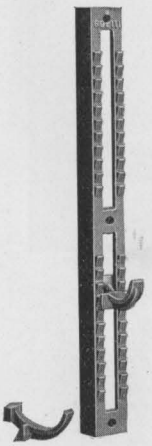
Prices quoted on application for cross arms of special size or borings.

CROSS ARM BRACES



Prices do not include bolts or screws.

Cat. No.	Description	List Price per 1000
40184	20″x1¼″x¼″, plain	**$108.00**
40185	20″x1¼″x¼″, galvanized	**146.00**
40186	24″x1¼″x¼″, plain	**120.00**
40187	24″x1¼″x¼″, galvanized	**130.00**
40188	24″x1¼″x¼″, plain	**175.00**
40189	28″x1¼″x¼″, galvanized	**140.00**
40190	28″x1¼″ x¼″, plain	**152.00**
40191	28″x1¼″ x¼″, galvanized	**210.00**
40192	20″x1$\frac{7}{32}$″x $\frac{7}{32}$″, plain	**69.00**
40193	20″x1$\frac{7}{32}$″x $\frac{7}{32}$″, galvanized	**78.00**
40194	20″x1$\frac{7}{32}$″x $\frac{7}{32}$″, plain	**107.00**
40195	24″x1$\frac{7}{32}$″x $\frac{7}{32}$″, galvanized	**82.00**



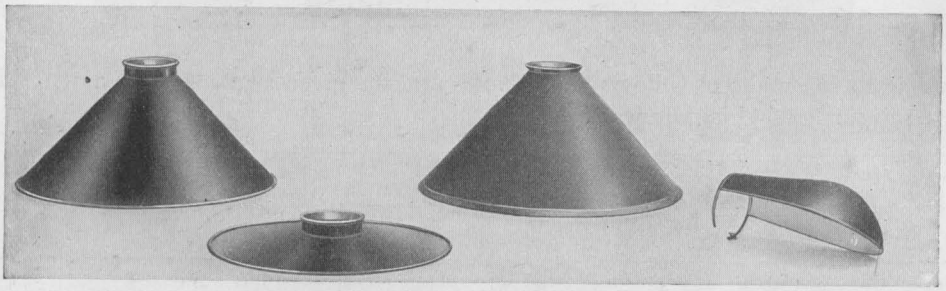
RACK AND HOOKS

RACKS AND HOOKS FOR STATION WIRING FOR USE WITH LEAD COVERED CABLES

Cat. No.	Description	List Price Each
11467	Cast iron rack, 3 feet long	**$2.50**
11468	Cast iron rack, 2 feet long	**1.50**
11469	Cast iron rack, 1 foot long	**.50**
11470	Malleable iron hook, for racks (for $\frac{1}{2}''$ cable)	**.18**
11471	Malleable iron hook, for racks (for $1\frac{1}{2}''$ cable)	**.18**
11472	Malleable iron hook, for racks (for $2\frac{1}{4}''$ cable)	**.25**

LAMP SHADES

Tin and Paper



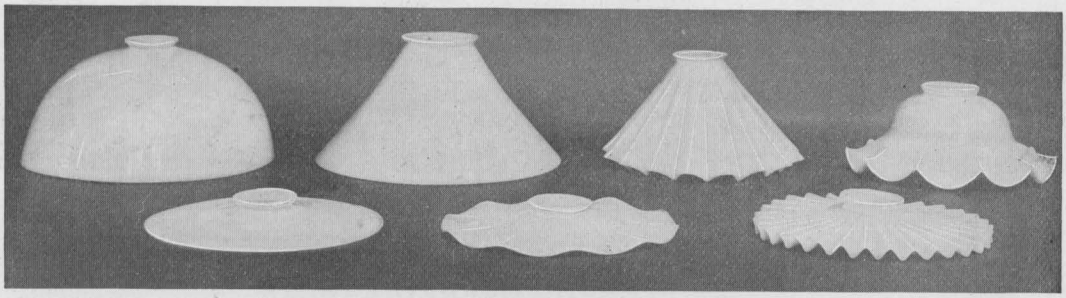
Cat. No. 8902 Cat. No. 8897 Cat. No. 8905 Cat. No. 14221

Shades listed in the following table are for $2\frac{1}{4}$″ holders. Shades for other sizes of holders can be furnished if desired.

Cat. No.	Description	List Price per Doz.	Cat. No.	Description	List Price per Doz.
8902	Deep cone tin shade, 10″ diam.	Prices on application	8898	Flat tin shade, 10″ diam.	Prices on application
8903	Deep cone tin shade, 12″ diam.		8899	Flat tin shade, 12″ diam.	
8904	Deep cone tin shade, 14″ diam.		8900	Flat tin shade, 14″ diam.	
8905	Green paper shade, 10″ diam.		8901	Flat tin shade, 16″ diam.	
8897	Flat tin shade, 8″ diam.		14221	Tin half shade	

Glass

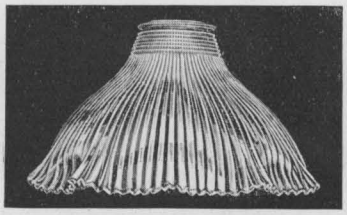
Cat. No. 8968 Cat. No. 8969 Cat. No. 8946 Cat. No. 8934



Cat. No. 8958 Cat. No. 8942 Cat. No. 8953

8934	Deep scallop opal, $2\frac{1}{4}$″ holder, 6″ diam.	Prices on application	8953	Flat fluted opal, $2\frac{1}{4}$″ holder, 8″ diam.	Prices on application
8935	Deep scallop opal, $2\frac{1}{4}$″ holder, 8″ diam.		8954	Flat fluted opal, $2\frac{1}{4}$″ holder, 10″ diam.	
8936	Flat scallop opal, $2\frac{1}{4}$″ holder, 6″ diam.		8955	Flat fluted opal, $2\frac{1}{4}$″ holder, 12″ diam.	
8937	Flat scallop opal, $2\frac{1}{4}$″ holder, 8″ diam.		8956	Flat fluted opal, $2\frac{1}{4}$″ holder, 14″ diam.	
8938	Flat scallop opal, $2\frac{1}{4}$″ holder, 10″ diam.		8957	Flat plain opal, $2\frac{1}{4}$″ holder, 6″ diam.	
8939	Flat scallop opal, $2\frac{1}{4}$″ holder, 12″ diam.		8958	Flat plain opal, $2\frac{1}{4}$″ holder, 8″ diam.	
8940	Flat scallop opal, $2\frac{1}{4}$″ holder, 15″ diam.		8959	Flat plain opal, $2\frac{1}{4}$″ holder, 10″ diam.	
8941	Flat scallop opal, $3\frac{1}{4}$″ holder, 6″ diam.		8960	Flat plain opal, $2\frac{1}{4}$″ holder, 12″ diam.	
8942	Flat scallop opal, $3\frac{1}{4}$″ holder, 8″ diam.		8961	Flat plain opal, $2\frac{1}{4}$″ holder, 15″ diam.	
8943	Flat scallop opal, $3\frac{1}{4}$″ holder, 10″ diam.		8962	Flat plain opal, $3\frac{1}{4}$″ holder, 6″ diam.	
8944	Flat scallop opal, $3\frac{1}{4}$″ holder, 12″ diam.		8963	Flat plain opal, $3\frac{1}{4}$″ holder, 8″ diam.	
8945	Flat scallop opal, $3\frac{1}{4}$″ holder, 15″ diam.		8964	Flat plain opal, $3\frac{1}{4}$″ holder, 10″ diam.	
8946	Deep fluted opal, $2\frac{1}{4}$″ holder, 5″ diam.		8965	Flat plain opal, $3\frac{1}{4}$″ holder, 12″ diam.	
8947	Deep fluted opal, $2\frac{1}{4}$″ holder. 6″ diam.		8966	Flat plain opal, $3\frac{1}{4}$″ holder, 15″ diam.	
8948	Deep fluted opal, $2\frac{1}{4}$″ holder, 7″ diam.		8967	Dome opal, $3\frac{1}{4}$″ holder, 8″ diam.	
8949	Deep fluted opal $2\frac{1}{4}$″ holder, 8″ diam.		8968	Dome opal, $3\frac{1}{4}$″ holder, 10″ diam.	
8950	Deep fluted opal, $2\frac{1}{4}$″ holder, 10″ diam.		8969	Deep cone opal, $3\frac{1}{4}$″ holder, 8″ diam.	
8951	Flat fluted opal, $2\frac{1}{4}$″ holder, 6″ diam.		8970	Deep cone opal, $3\frac{1}{4}$″ holder, 10″ diam.	
8952	Flat fluted opal, $2\frac{1}{4}$″ holder, 7″ diam.				

HOLOPHANES



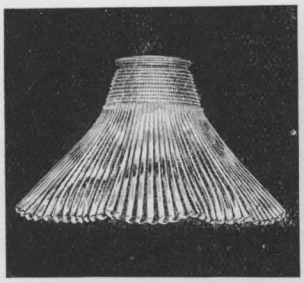
Cat. No. 62621



Cat. No. 62633



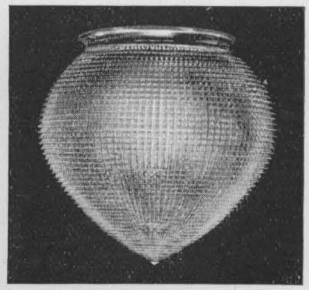
Cat. No. 62623



Cat. No. 63353



Cat. No 62651



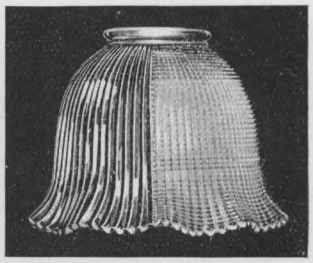
Cat. No. 62631



Cat. No. 62405



Cat. No. 62805



Cat. No. 60245

Cat. No.	Class	Dimensions in Inches			Lamps Recommended	
		Holder	Width	Height		
63353	A	$3\frac{1}{4}$	$4\frac{1}{2}$	5	10 to 16 C.P.	Prices on application
60245	Special	$2\frac{1}{4}$	$5\frac{1}{2}$	4	10 to 16 C.P.	
62805	B	$2\frac{1}{4}$	$5\frac{1}{2}$	$4\frac{1}{2}$	10 to 16 C.P.	
62405	B	$2\frac{1}{4}$	$5\frac{3}{4}$	$4\frac{1}{2}$	10 to 16 C.P.	
62621		$1\frac{5}{8}$	6	$3\frac{3}{4}$	8 to 16 C.P.	
62631		$1\frac{5}{8}$	$5\frac{1}{2}$	$3\frac{1}{2}$	8 to 16 C.P.	
62623		$2\frac{1}{4}$	$6\frac{1}{2}$	$3\frac{1}{2}$	8 to 16 C.P.	
62633		$2\frac{1}{4}$	6	$3\frac{3}{4}$	8 to 16 C.P.	
62651		$2\frac{1}{4}$	$9\frac{1}{2}$	5	32 to 50 C.P.	

CODE WORDS

Code Word	SHIPMENT
Retudier	Can make shipment inside of.....
Retuerzas	Cancel our order for shipment to.....
Retulimus	Hasten the shipment of.....
Retulissit	Have received entire shipment
Retumbamos	If shipment not already made—hold order for further instructions
Retumbaria	Immediate shipment
Retumbeis	Notify us when our order for .....is ready for shipment
Retundiran	Shipment made
Retundiria	Shipment need not be made until.....
Retundir	Shipment is satisfactory
Returnless	Shipment within.....days
Retuvieron	We have ready for shipment
Retuviese	When can you make shipment
Retuvo	When can you make shipment of.....
Reudigni	When will shipments be made
Reukdoosje	Are holding your order No..... for shipping directions
Reukkastje	Awaiting shipping directions
Reukoffers	By what railroad will you ship
Reukwortel	Can ship immediately
Reukvat	Can ship at once upon receipt of order
Reuncturi	Cannot ship immediately
Reunxerunt	Have shipped as directed
Reunxisset	Have shipped by freight
Reunxisti	Have shipped by express
Reuse	Have you shipped
Reussir	How are we to ship
Reussiriez	How much can you ship
Reussirons	How much did you ship
Reuthacke	If you cannot ship within time named, advise us by telegraph
Revacuno	Ship at your discretion
Revalidar	Ship by cheapest way
Revalidada	Ship by fast freight
Revalons	Ship by express
Revaluimus	Ship by quickest route
Revasserie	Ship what you have ready and let the balance follow as soon as possible
Revealeth	Telegraph as soon as shipped
	TELEGRAMS
Rabenlocke	Acknowledge by wire
Rabiruiva	Address as per our telegram of.....
Rachadeira	Advise by wire regarding.....
Radicone	Answer by telegraph immediately
Radieuses	Answering your telegram of.....
Radique	We await answer to our telegram of.....
Ricommesso	Give particulars by telegraph
Resabido	Telegraph your price
Resorbida	Referring to my telegram of.....
Resorcine	Referring to your telegram of.....
Ricottina	Telegraph as soon as you can
Ricioncava	As soon as you have an answer, telegraph us
Ricircola	Await our telegraphic instructions
Ricopiolli	Referring to our telegram of.....

Code Word	TELEGRAMS—Continued
Ricorsivo	Telegram received and shall have our immediate attention
Ricreassi	Telegraph immediately what you can do
Ricuperano	To what telegram do you refer
Ricupero	We confirm our last telegram
Ricurvo	We confirm our telegram of.....
	ORDERS
Rancheando	Cannot fill your order No..... and have canceled it
Renuerunt	Cancel our order and await further instructions
Reconcludo	Prepay freight
Renudavi	Are awaiting your orders
Renuencia	As per order
Renuerimus	Cancel order contained in our letter of.....
Renvenimer	Goods ordered will be forwarded at once
Renversant	Has our order been shipped
Repacerian	Must await your remittance before executing order
Repack	Order by Catalogue number
Repangor	Ship in addition to previous order
Reparcerem	What is the earliest date you can fill our order
Reparition	When will goods be shipped that were ordered on.....
Repartir	Your order for ....is ready for shipment and we await your further instructions
Rifoderare	Have sent tracer after goods
Rifoderano	Are tracing
Rifoderava	Have started telegraphic tracer after your order of.....
Riforbissi	Will trace
Rifondi	Send tracer after our order of.....
	QUOTATIONS
Resiga	Give quotation
Resilienza	Quotations wanted, cost and freight
Resiluisti	Referring to quotation dated.....
Resimorum	Referring to Quotation No.....
Resinaceum	Telegraph price you have quoted or propose to quote
Resinalis	Telegraph us today quotations for.....
	DELIVERIES
Raumlehre	Can deliver.....days f.o.b. cars
Raunata	Can you deliver in.....days.....f.o.b. cars.....
Ravageront	Give date when delivered
Ravener	When will goods be ready for delivery
	LETTERS
Rabenlied	Acknowledge by mail
Rabisaca	Address as per our letter of.....
Races	Advise by mail regarding.....
Radicivore	Answer by mail
Radieschen	Answering your letter of.....
Radiosus	We await answer to our letter of.....
Radix	Will answer by mail inquiry regarding
Redonniez	Await letter
Redordiere	Detailed letter follows
Redoreront	Give particulars by letter

CODE WORDS—Continued

Code Word	LETTERS—Continued
Reducirian	Referring to our letter in regard to.....
Reductavit	Referring to your letter in regard to.....
Resorbemos	Referring to my letter of.....
Resorbidos	Referring to your letter of.....
	MISCELLANEOUS
Rabennacht	Acknowledge receipt of.....
Rabenspule	Your acknowledgement is necessary
Rachedurst	Advise us if goods have reached you
Raddenso	Alterations have been made in accordance with your wishes
Raddossava	Make necessary alterations
Raddosso	Make no alterations
Radically	What is the amount of the invoice
Radicaron	What is the total amount of.....
Ragrafer	It will have our immediate attention
Ramenasbed	Bill of lading mailed by this post
Ramerais	Forward us bill of lading
Rangership	Catalogue No. is.....
Rangierzug	See our Catalogue No.....
Rankig	Advise promptly in case of any change
Ranterism	Prepay all charges
Rattarpare	Please make necessary corrections
Resipietis	At what rate can you.....
Restregar	Can do nothing until you reply
Rimastichi	Write with full particulars

CODE WORDS NUMERALS

Code Word	No.	Code Word	No.	Code Word	No.	Code Word	No.
Reisete	1	Reissuable	51	Reitsattel	101	Rejitaba	151
Reisetrupp	2	Reissue	52	Reitschule	102	Rejitan	152
Reiseuhr	3	Reissuing	53	Reitstall	103	Rejitaras	153
Reisewagen	4	Reisszahn	54	Reitstock	104	Rejitarian	154
Reiseweg	5	Reisszeug	55	Reittasche	105	Rejitaseis	155
Reisewerk	6	Reistasch	56	Reittenne	106	Rejitaste	156
Reisewuth	7	Reistijd	57	Reituebung	107	Rejoicing	157
Reisezoll	8	Reistruhe	58	Reitvogt	108	Rejoignons	158
Reisezweck	9	Reiswoede	59	Reitwegen	109	Rejoinder	159
Reisfeld	10	Reiszak	60	Reitzeug	110	Rejolting	160
Reisfelder	11	Reitanzug	61	Reivindico	111	Rejoncillo	161
Reisgenoot	12	Reitbahn	62	Reixelo	112	Rejoneadas	162
Reisgerste	13	Reitelholz	63	Reizbares	113	Rejoneado	163
Reisgewaad	14	Reitendes	64	Reizend	114	Rejoneamos	164
Reisgezel	15	Reiteracao	65	Reizender	115	Rejonear	165
Reisgoed	16	Reiterados	66	Reizfaehig	116	Rejonearon	166
Reisholz	17	Reiterames	67	Reizigers	117	Rejoneeis	167
Reisigholz	18	Reiterammo	68	Reizker	118	Rejoneo	168
Reisje	19	Reiterar	69	Reizlos	119	Rejouimes	169
Reiskist	20	Reiteraria	70	Reizloser	120	Rejouiras	170
Reiskistje	21	Reiterassi	71	Reizmittel	121	Rejouirez	171
Reisknecht	22	Reiteratif	72	Reizung	122	Rejouiront	172
Reiskoffer	23	Reiterava	73	Reizungen	123	Rejouisses	173
Reiskorn	24	Reiteravel	74	Reizvoll	124	Rejourned	174
Reiskosten	25	Reiteriez	75	Reizvoller	125	Rejudge	175
Reiskuchen	26	Reitero	76	Rejactatio	126	Rejuela	176
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Renarriez	13,000	Rencherira	29,000	Rencuraron	45,000	Rendituzza	61,000
Renarrons	14,000	Renchier	30,000	Rencuraste	46,000	Rendons	62,000
Renascamur	15,000	Rencilloso	31,000	Rencurosos	47,000	Rendormiez	63,000
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Renatabas	20,000	Rencontro	36,000	Rendeira	52,000	Rendoubler	68,000
Renatatos	21,000	Rencor	37,000	Rendicao	53,000	Renduire	69,000
Renatavit	22,000	Rencores	38,000	Rendidura	54,000	Renduisant	70,000
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