

General Electric Company

Schenectady, N.Y.

October, 1920

*Bulletin No. 47540

TYPES CK AND CK-2 AIR CIRCUIT BREAKERS BACK CONNECTED

DIRECT CURRENT

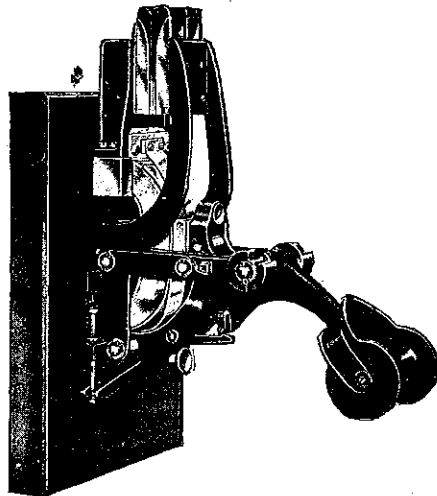
Type CK—Single- and double-pole—250-volt—1500 to 6000 amperes.

Type CK-2—Single-pole—650-volt—1500 to 10,000 amperes. Double-pole—1500 to †6000 amperes.

ALTERNATING CURRENT

Type CK—Single- and double-pole—480-volt—1500 to 3000 amperes.

Type CK-2—Single- and double-pole—650-volt—1500 to 3000 amperes.



650-Volt, 1500-Amp., S-P-S-T., Overload,
Type CK-2 Air Circuit Breaker

Service

The Type CK, 250-volt air circuit breakers are recommended for heavy service where large capacity breakers are required for lighting or power installations.

The Type CK-2, 650-volt air circuit breakers are recommended for any service however severe and are especially adapted to

† Above 6000 amperes, information on request.

NOTE.—Data subject to change without notice.

*Supersedes Bulletin 47502.

Class 117.

large railway installations employing the third rail system where the load is highly inductive.

In combination with the Type CP breakers for the smaller ampere capacities, a complete line of highest grade switchboard breakers are listed giving a range of calibration from 10 to 25,000 amperes, combining the requisites of substantial construction, reliable operation and attractive appearance, with low cost and high efficiency.

Features of Design

In general design the Types CK and CK-2 breakers are somewhat alike and differ only in the construction of the carbon secondary contacts. Breakers are made back connected only, and are mounted on templates for switchboard panels but may be supplied on natural black slate base for framework mounting.

Copper Parts and Contacts

All current-carrying parts are massive and of ample cross section. The studs are laminated, with the bars extending through and flush with the surface of the contact block. The bars are forced through slots in the block under heavy pressure and sweated in place, thereby insuring positive contact. The laminated main brush is of the double end construction securely held and backed with heavy castings. Each lamination makes an end on contact on main studs and has a positive rubbing motion on the stationary contact surface in the closing operation.

A substantial flexible connection screwed to the lower stud and main brush makes burning of the lower end of the brush impossible. All arcing is between the secondary contacts.

The auxiliary metal burning contacts make contact under heavy pressure, ensuring a low drop across the main brush on opening. In the Type CK breakers the secondary

47540-2 Types CK and CK-2 Air Circuit Breakers

carbons are large and with the breaker closed are held under heavy pressure by strong flat spring supports. The rectangular carbon blocks are clamped and sweated in holders and fastened to the spring supports. This method of attaching the carbon to the breaker does not require screws or screw holes in the carbon itself and does not decrease the strength of the carbon block.

In the Type CK-2 breakers the carbon blocks on the moving arm are rigidly held and strong spring pressure is exerted between

stud and a hinged armature with an adjustable air gap provides the means of obtaining desired calibration, according to the rating of the breaker.

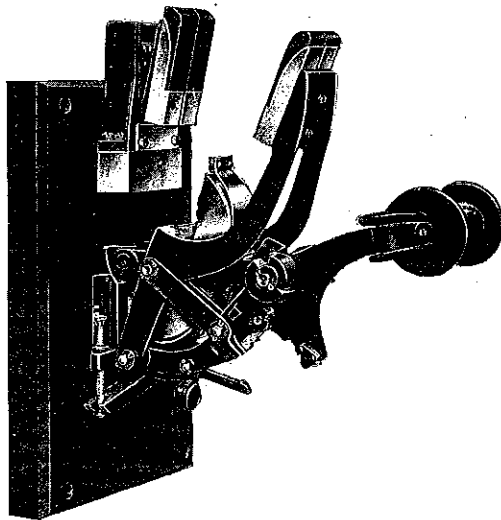
Finish

All current-carrying parts are finished in natural metal, polished and lacquered. All pins, links, etc., are copper-plated and given a dull black finish as are the other parts of the mechanism.

Relays

Overload relays with time limit feature, and reverse current relays for any capacity and voltage, are available for use with circuit breakers and fully cover the field of special requirements in addition to plain overload.

Relays of the circuit-closing (normally open) form are used with the circuit breakers.



650-Volt, 1500-Amp., S-P.S-T., Overload, Type CK-2 Air Circuit Breaker

these carbons and those contained in a neat housing on the upper stud contact. These carbons are exceptionally large and may be readily renewed. This form of carbon secondary has been developed to secure absolute protection of the main brush when opening on a highly inductive load.

Handles

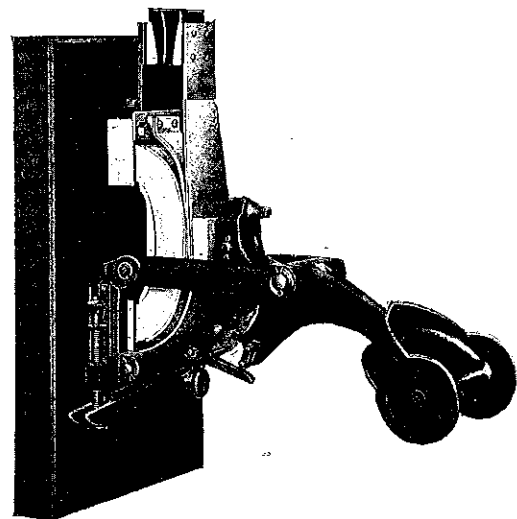
Large spade handles well insulated by a moulded piece and an insulated tripping knob afford positive protection to the operator. The frames as well as current carrying parts are alive.

Mechanism

A strong mechanism and a powerful toggle, permit the breakers to be closed with minimum effort. Hardened steel catches, hold the breakers in closed position.

Overload Operation

Overload trip coils are not used. The current passing through the lower stud, energizes the magnet surrounding the lower



250-Volt, 2000-Amp., S-P.S-T., Overload, Type CK Air Circuit Breaker

Attachments Available

For all capacity circuit breakers—single and double-pole:

- Shunt trip.
- Under-voltage device.
- Circuit-opening auxiliary switch.
- Circuit-closing auxiliary switch.
- Combined circuit-opening and circuit-closing auxiliary switch.

Under-voltage devices, shunt trip attachments and auxiliary switches for use with either Types CK or CK-2, for direct and alternating current, are designed to be easily mounted in combination with the breakers.

By means of the shunt trip or under-voltage device these breakers may be opened by the operation of some other device such as

limit switches, various relays, speed limiting devices on machines and push button control.

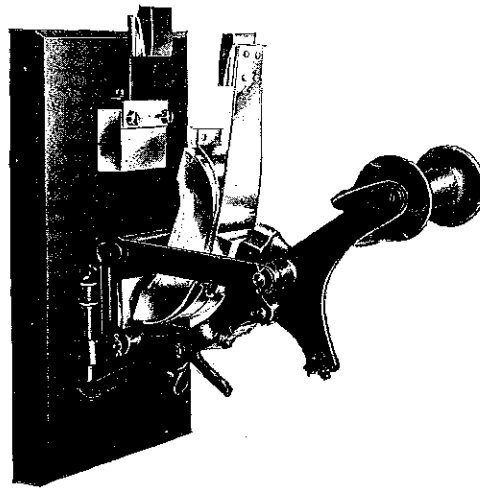
Laminated studs are intended for direct busbar connections and terminals are therefore not included with these breakers.

When cable connections are used special terminals can be furnished. Prices on application.

47540-4 Types CK and CK-2 Air Circuit Breakers

PLAIN OVERLOAD—DIRECT CURRENT—BACK CONNECTED

SINGLE-POLE



Single-Pole, Type CK, 250 Volts

CAT. NO.		Ampere Capacity	CALIBRATION		Approx. Ship. Wt. in Lb.
For Mounting on 2 $\frac{3}{4}$ -In. Panel	For Mounting on 2 $\frac{1}{2}$ -In. Panel		Min.	Max.	
TYPE CK—SINGLE-POLE—250 VOLTS					
1912301G1		1500	1200	3000	100
1912303G1		2000	1500	4000	100
1912305G1		3000	2000	6000	150
1912307G1		4000	3000	10000	200
1912309G1	1912309G1	6000	3000	15000	300
TYPE CK-2—SINGLE-POLE—650 VOLTS					
1912311G1		1500	1200	3000	130
1912313G1		2000	1500	4000	130
1912315G1		3000	2000	6000	170
1912317G1		4000	3000	10000	220
1912319G1	1912319G1	6000	3000	15000	360
	1912321G1	8000	4000	20000	520
	1912323G1	10000	6000	25000	680
		14000	Data on application		

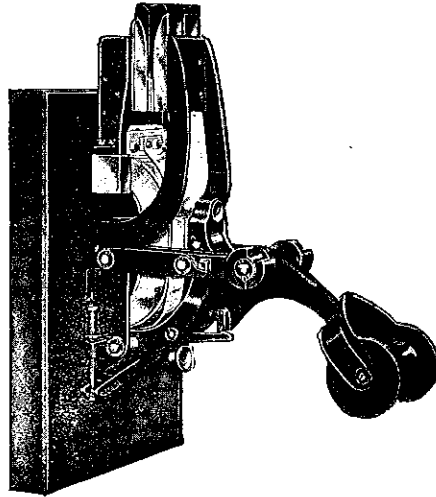
For dimensions, see Pages 9 and 10.
Prices on application.

Standard breakers as listed above have laminated studs. The upper studs are arranged for horizontal connections and the lower studs for vertical connections. Information on request for breakers with upper and lower studs both arranged for vertical connections.

GENERAL ELECTRIC COMPANY

Types CK and CK-2 Air Circuit Breakers 47540-5

PLAIN OVERLOAD—ALTERNATING CURRENT—BACK CONNECTED
SINGLE-POLE



Single-Pole, Type CK-2, 650 Volts

CAT. NO. For Mounting on 2-In. Panel	Ampere Capacity	CALIBRATION		Approx. Ship. Wt. in Lb.
		Min.	Max.	
TYPE CK—SINGLE-POLE—480 VOLTS				
1912301G3	1500	1200	3000	100
1912303G3	2000	1500	4000	100
1912305G3	3000	2000	6000	150
TYPE CK-2—SINGLE-POLE—650 VOLTS				
1912311G3	1500	1200	3000	130
1912313G3	2000	1500	4000	130
1912315G3	3000	2000	6000	170

For dimensions, see Pages 9 and 10.

Always specify frequency for alternating current breakers.

Prices on application.

Prices of 4000, 6000, 8000 and 12,000 amp., alternating current air circuit breakers will be quoted on application.

Standard breakers as listed above have laminated studs. The upper studs are arranged for horizontal connections and the lower studs for vertical connections. Information on request for breakers with upper and lower studs both arranged for vertical connections.

GENERAL ELECTRIC COMPANY

47540-6 Types CK and CK-2 Air Circuit Breakers

PLAIN OVERLOAD—DIRECT CURRENT—BACK CONNECTED
DOUBLE-POLE

CAT. NO.		Ampere Capacity	CALIBRATION		Approx. Ship. Wt. in Lb.
For Mounting on 2-in. Panel	For Mounting on 2½-in. Panel		Min.	Max.	
TYPE CK—DOUBLE-POLE—250 VOLTS					
1912301G2		1500	1200	3000	200
1912303G2		2000	1500	4000	200
1912305G2		3000	2000	6000	300
1912307G2		4000	3000	10000	400
1912309G2	1912309G2	6000	3000	15000	600

TYPE CK-2—DOUBLE-POLE—650 VOLTS

1912311G2		1500	1200	3000	200
1912313G2		2000	1500	4000	260
1912315G2		3000	2000	6000	340
1912317G2		4000	3000	10000	440
1912319G2	1912319G2	6000	3000	15000	720

PLAIN OVERLOAD—ALTERNATING CURRENT—BACK CONNECTED
DOUBLE-POLE

CAT. NO.		Ampere Capacity	CALIBRATION		Approx. Ship. Wt. in Lb.
For Mounting on 2-In. Panel			Min.	Max.	
TYPE CK—DOUBLE-POLE—480 VOLTS					
1912301G4		1500	1200	3000	200
1912303G4		2000	1500	4000	200
1912305G4		3000	2000	6000	300
TYPE CK-2—DOUBLE-POLE—650 VOLTS					
1912311G4		1500	1200	3000	200
1912313G4		2000	1500	4000	260
1912315G4		3000	2000	6000	340

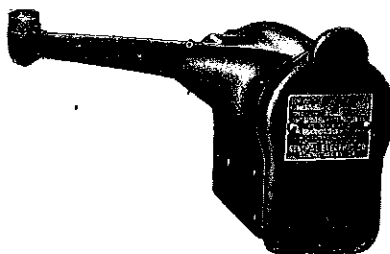
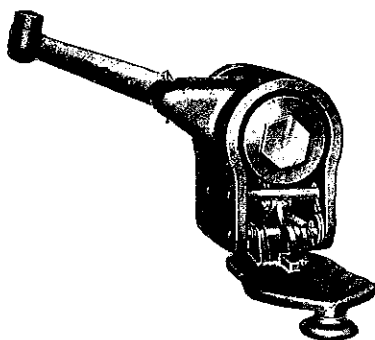
Always specify frequency for alternating current breakers.

For dimensions, see Pages 9 and 10.

Prices on application.

Standard breakers as listed above have laminated studs. The upper studs are arranged for horizontal connections and the lower studs for vertical connections. Information on request for breakers with upper and lower studs both arranged for vertical connections.

**ATTACHMENTS—DIRECT CURRENT
UNDER-VOLTAGE DEVICE ATTACHMENT ***



Under-Voltage Device (Open)

Under-Voltage Device (Closed)

CAT. NO.			Ampere Capacity of Breaker	Approx. Ship. Wt. in Lb.
110 to 125 Volts	220 to 250 Volts	500 to 650 Volts		
FOR USE WITH SINGLE-POLE, TYPES CK OR CK-2				
202062	202063	202064	1500	15
202065	202066	202067	2000	15
202068	202069	202070	3000	15
202071	202072	202073	4000	15
202074	202075	202076	6000	15
202077	202078	202079	8000	15
202080	202081	202082	10000	15
FOR USE WITH DOUBLE-POLE, TYPES CK OR CK-2				
202083	202084	202085	1500	15
202086	202087	202088	2000	15
202089	202090	202091	3000	15
202092	202093	202094	4000	15
202095	202096	202097	6000	15

* Releases at approximately one-quarter rated voltage.

Cat. No. and List Price includes series resistance for under-voltage coil.

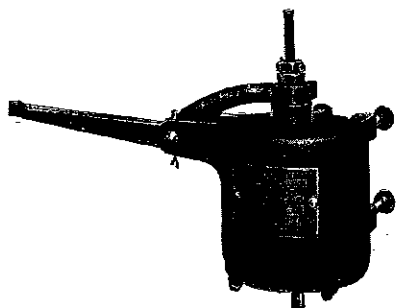
Only one attachment may be used with a single- or double-pole breaker. With a single-pole breaker the attachment is mounted on the right-hand side facing the panel; with a double-pole it is mounted symmetrically between poles, and trips the left-hand pole first, interlock between poles bringing right-hand pole out.

For dimensions, see Page 11.

Prices of direct and alternating current attachments on application.

SHUNT TRIP ATTACHMENTS †

125, 250 OR 650 VOLTS FOR USE WITH SINGLE-POLE, TYPES CK OR CK-2



Shunt Trip

Cat. No.	Ampere Capacity of Breaker	Approx. Ship. Wt. in Lb.
119877	1500	15
32456	2000	15
104513	3000	15
32457	4000	15
32458	6000	15
32459	8000	15
32459	10000	15

†Coil of the attachment should be allowed to remain in circuit only momentarily.

Use circuit-opening auxiliary switch in shunt trip coil circuits unless opening of circuit breakers opens the shunt trip coil circuit.

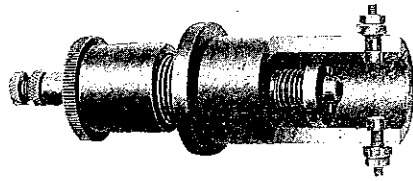
Will operate on line voltage from 90 to 650 volts.

For dimensions, see Page 11.

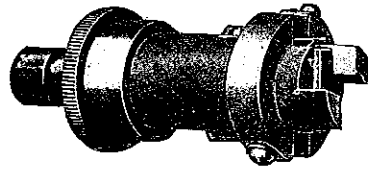
Price of attachments for direct and alternating current, single- or double-pole breakers on application

47540-8 Types CK and CK-2 Air Circuit Breakers

ATTACHMENTS—DIRECT AND ALTERNATING CURRENT
AUXILIARY SWITCHES



Circuit-Opening Auxiliary Switch



Circuit-Closing Auxiliary Switch

CAT. NO.			Thickness of Panel in In.	Ampere Capacity of Breaker
Circuit-Closing	Circuit-Opening	Combined Circuit-Opening and Circuit-Closing		
FOR USE WITH TYPE CK, 250-VOLT BREAKERS				
119885	202098	119887	2	1500
32496	202099	32508	2	2000
104519	202100	104522	2	3000
32497	202101	32509	2	4000
32498	202102	32510	2	6000
32502	202102	32514	2½	6000
FOR USE WITH TYPE CK-2, 650-VOLT BREAKERS				
1198981	203815	119893	2	1500
32492	203816	32504	2	2000
104528	203817	104531	2	3000
32493	203818	32505	2	4000
32494	203819	32506	2	6000
32499	203819	32511	2½	6000
32500	203820	32512	2½	8000
32501	203821	32513	2½	10000

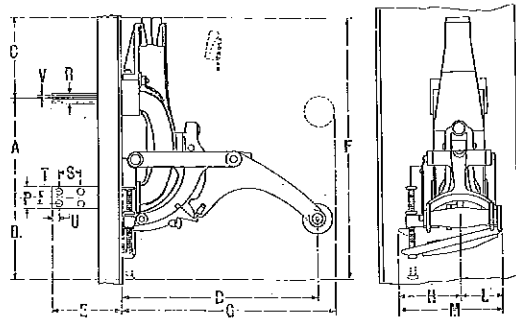
For locations, see Page 11.
Prices on application.

GENERAL ELECTRIC COMPANY

Types CK and CK-2 Air Circuit Breakers 47540-9

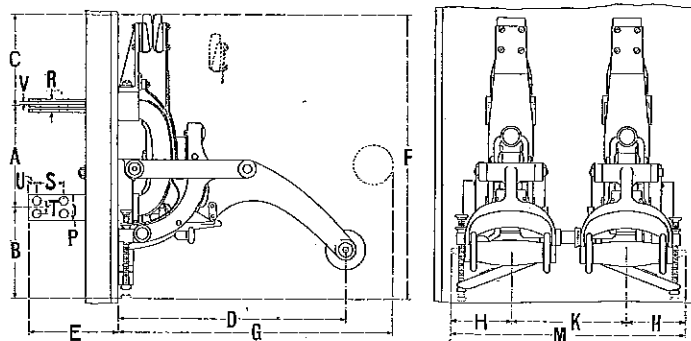
DIMENSIONS OF TYPE CK—DIRECT AND ALTERNATING CURRENT

SINGLE-POLE—250 VOLTS D-C.—480 VOLTS A-C.



Amp. Capacity of Breaker	DIMENSIONS IN INCHES															
	A	B	C	D	E	F	G	H	L	M	P	R	S	*T	U	V
1500 a-c. and d-c.	6 1/4	5	5 5/8	14 1/4	7	16 7/8	16 1/4	3 11/16	2 1/16	6 3/8	1 3/4	1 1/4	1 3/4	—	5/8	1/4
2000 a-c. and d-c.	7 3/8	6	6 3/16	16	8	19 9/16	17 1/2	5 1/16	3 3/16	8 1/4	2 1/4	1 1/4	2 1/2	—	3/4	1/4
3000 a-c. and d-c.	8 1/4	7	6 3/4	16 3/4	8	22	19	5 1/8	3 3/8	8 3/4	2 1/2	1 3/4	2 1/2	1 1/2	3/4	1/4
4000 d-c.	9	7 5/8	6 1/4	18 7/8	8	22 7/8	20 1/2	5 7/8	4 1/8	10	2 1/2	2 1/4	2 1/2	1 1/2	3/4	1/4
6000 d-c.	10 5/8	8 5/16	8	20 7/16	8	26 1/16	23 3/16	6 1/8	4 5/16	10 1/16	3 1/4	2 3/4	2 1/2	2	3/4	1/4

DOUBLE-POLE TWO-COIL—250 VOLTS D-C.—480 VOLTS A-C.



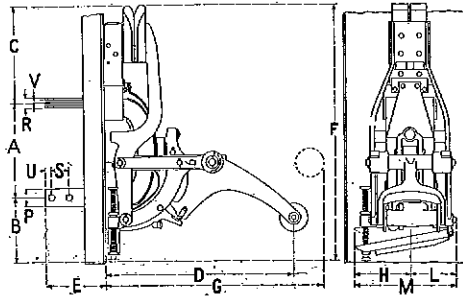
Amp. Capacity of Breaker	DIMENSIONS IN INCHES															
	A	B	C	D	E	F	G	H	K	M	P	R	S	*T	U	V
1500 a-c. and d-c.	6 1/4	5	5 5/8	14 1/4	7	16 7/8	16 1/4	3 11/16	7 1/2	14 7/8	1 3/4	1 1/4	1 3/4	—	5/8	1/4
2000 a-c. and d-c.	7 3/8	6	6 3/16	16	8	19 9/16	17 1/2	5 1/16	8 1/2	18 5/8	2 1/4	1 1/4	2 1/2	—	3/4	1/4
3000 a-c. and d-c.	8 1/4	7	6 3/4	16 3/4	8	22	19	5 1/8	9 1/2	19 3/4	2 1/2	1 3/4	2 1/2	1 1/2	3/4	1/4
4000 d-c.	9	7 5/8	6 1/4	18 7/8	8	22 7/8	20 1/2	5 7/8	10 1/2	22 1/4	2 1/2	2 1/4	2 1/2	1 1/2	3/4	1/4
6000 d-c.	10 5/8	8 5/16	8	20 7/16	8	26 1/16	23 3/16	6 1/8	11	23 1/4	3 1/4	2 3/4	2 1/2	1 1/2	3/4	1/4

* For 1500- and 2000-amp. breaker only two-bolt holes are required.
 Dimensions are for reference only.

GENERAL ELECTRIC COMPANY

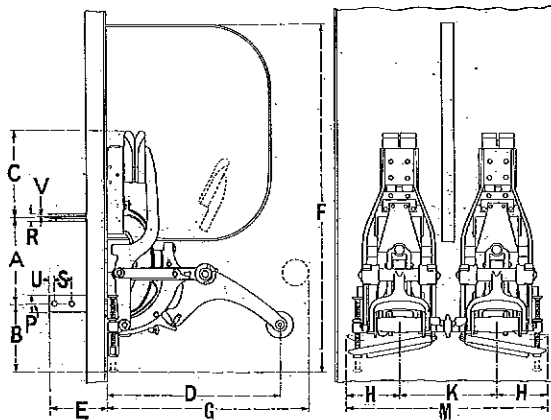
47540-10 Types CK and CK-2 Air Circuit Breakers

DIMENSIONS OF TYPE CK-2—DIRECT AND ALTERNATING CURRENT
SINGLE-POLE—650 VOLTS D-C. AND A-C.



Amp. Capacity of Breaker	DIMENSIONS IN INCHES															
	A	B	C	D	E	F	G	H	L	M	P	R	S	*T	U	V
1500 d-c. and a-c.	6 1/4	5	7 7/8	14 1/4	7	19 1/8	16 1/4	3 11/16	3 9/16	7 1/4	1 3/4	1 1/4	1 3/4	—	5/8	1/4
2000 d-c. and a-c.	7 3/8	6	8 1/16	16	8	21 1/8	17 1/2	5 1/16	3 3/8	8 1/16	2 1/4	1 1/4	2 1/2	—	3/4	1/4
3000 d-c. and a-c.	8 1/4	7	8 1/2	16 3/4	8	23 3/4	19	5 3/8	3 11/16	9	2 1/2	1 3/4	2 1/2	1 1/2	3/4	1/4
4000 d-c.	9	7	8 7/8	18 7/8	8	24 7/8	20 1/2	5 7/8	4 1/8	10	2 1/2	2 1/4	2 1/2	1 1/2	3/4	1/4
6000 d-c.	10 5/8	7 1/2	13 1/8	20 7/16	8	32	23 1/4	6 1/8	5	11 1/8	3 1/4	2 1/4	2 1/2	2	3/4	1/4
8000 d-c.	12 1/2	8 9/16	11 3/4	21 1/16	8	32 1/8	23 3/8	6 5/16	5 1/4	11 9/16	4	3 1/4	2 1/2	2 1/2	3/4	1/4
10000 d-c.	14	9	12 1/8	22 3/8	8	35 1/8	24 1/8	7 1/8	5 9/16	12 1/16	4	4 1/4	2 1/2	2 1/2	3/4	1/4

DOUBLE-POLE TWO-COIL—650 VOLTS D-C. AND A-C.



Amp. Capacity of Breaker	DIMENSIONS IN INCHES															
	A	B	C	D	E	F	G	H	K	M	P	R	S	*T	U	V
1500 d-c. and a-c.	6 1/4	5	7 7/8	14 1/4	7	29 3/4	16 1/4	3 1/8	7 1/2	14 7/8	1 3/4	1 1/4	1 3/4	—	5/8	1/4
2000 d-c. and a-c.	7 3/8	6	8 1/16	16	8	31 7/8	17 1/2	5 1/16	8 1/2	18 3/8	2 1/4	1 1/4	2 1/2	—	3/4	1/4
3000 d-c. and a-c.	8 1/4	7	8 1/2	16 3/4	8	33 3/4	19	5 3/8	9 1/2	19 7/8	2 1/2	1 3/4	2 1/2	1 1/2	3/4	1/4
4000 d-c.	9	7	8 7/8	18 7/8	8	34 1/2	20 1/2	5 7/8	10 1/2	22 1/4	2 1/2	2 1/4	2 1/2	1 1/2	3/4	1/4
6000 d-c.	10 5/8	8	13 1/8	20 7/16	8	40 3/8	23 1/4	6 1/8	11 1/2	23 3/4	3 1/4	2 1/4	2 1/2	2	3/4	1/4
8000 d-c.	12 1/2	8 9/16	11 3/4	21 1/16	8	43 1/16	23 3/8	6 5/16	12	24 5/8	4	3 1/4	2 1/2	2 1/2	3/4	1/4
10000 d-c.	14	9	12 1/8	22 3/8	8	45	24 1/8	7 1/8	12 3/4	27	4	4 1/4	2 1/2	2 1/2	3/4	1/4

* For 1500- and 2000-amp. breakers only two-bolt holes are required.
Dimensions are for reference only.

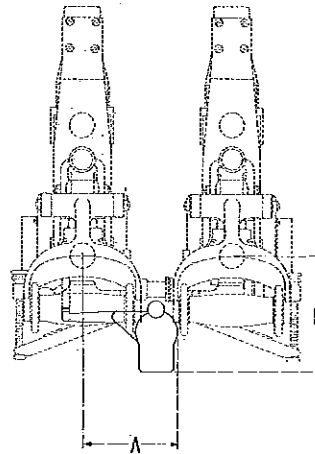
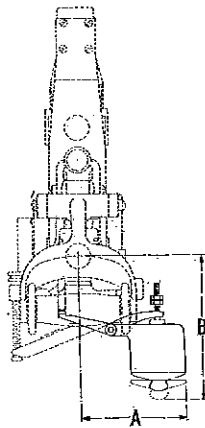
GENERAL ELECTRIC COMPANY

Types CK and CK-2 Air Circuit Breakers 47540-11

DIMENSIONS OF ATTACHMENTS—DIRECT AND ALTERNATING CURRENT FOR TYPES CK AND CK-2

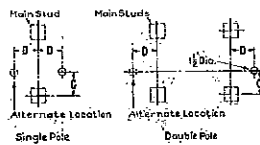
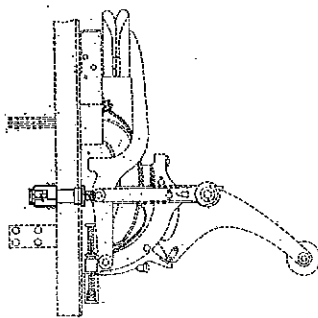
SHUNT TRIP

UNDER-VOLTAGE DEVICE



Amp. Capacity of Breaker	DIMENSIONS IN INCHES							
	Shunt Trip For Types CK and CK-2				Under-Voltage Device For Types CK and CK-2			
	S-P.		D-P.		S-P.		D-P.	
	A	B	A	B	A	B	A	B
1500 d-c. and a-c.	5 3/4	7 1/4	5 1/4	8 1/16	5 3/32	7 5/8	5 7/8	8 1/2
2000 d-c. and a-c.	6 1/4	7 5/8	5 3/4	8 5/8	6 1/32	7 7/8	5 3/32	8 1/16
3000 d-c. and a-c.	6 3/4	7 5/8	6 1/4	8 1/16	6 3/32	8	6 7/32	9
4000 d-c.	7 3/8	7 3/4	6 3/4	9 1/16	7 1/16	8 1/8	6 3/32	9 1/4
6000 d-c.	7 7/8	8 1/8	7 1/4	9 1/16	7 27/32	9 1/4	7 7/32	10
8000 d-c.	7 7/8	9 1/16	7 1/2	10 3/16	7 27/32	9 7/16	7 1/16	10 1/4
10000 d-c.	7 7/8	9 1/4	7 3/8	10 1/16	7 27/32	9 5/8	7 27/32	10 3/4

AUXILIARY SWITCH FOR TYPE CK-2 *



Amp. Capacity of Breaker	DIMENSIONS IN INCHES	
	C	D
1500 d-c. and a-c.	2 3/8	3 1/4
2000 d-c. and a-c.	2 13/16	3 13/16
3000 d-c. and a-c.	3 1/8	4 1/4
4000 d-c.	3 5/8	4 7/8
6000 d-c.	5 1/2	5 3/8
8000 d-c.	6 3/4	5 3/8
10000 d-c.	7 3/4	6 1/8

* Auxiliary switches for Type CK breakers are mounted on panel directly under brush and do not affect overall dimensions of breaker.

Dimensions are for reference only.

GENERAL ELECTRIC COMPANY

GENERAL OFFICE: SCHENECTADY, N. Y.

SALES OFFICES (Address nearest Office)

<p>Atlanta, Ga. Citizens and Southern Bank Building Baltimore, Md. Lexington Street Building Birmingham, Ala. Brown-Marx Building Boston, Mass. 84 State Street Buffalo, N. Y. Electric Building Butte, Mont. Electric Building Charleston, W. Va. Charleston National Bank Building Charlotte, N. C. Commercial National Bank Building Chattanooga, Tenn. James Building Chicago, Ill. Monadnock Building Cincinnati, Ohio Provident Bank Building Cleveland, Ohio Illuminating Building Columbus, Ohio The Hartman Building Dayton, Ohio Dayton Savings & Trust Building Denver, Colo. First National Bank Building Des Moines, Iowa Hippce Building Detroit, Mich. Dime Savings Bank Building Duluth, Minn. Fidelity Building Elmira, N. Y. Hulett Building Erie, Pa. Commerce Building Fort Wayne, Ind. 1600 Broadway Grand Rapids, Mich. Commercial Savings Bank Building Hartford, Conn. Hartford National Bank Building Indianapolis, Ind. Traction Terminal Building Jacksonville, Fla. Heard National Bank Building Joplin, Mo. Miners Bank Building Kansas City, Mo. Dwight Building Knoxville, Tenn. Burwell Building Little Rock, Ark. Southern Trust Building Los Angeles, Calif. Corporation Building, 724 S. Spring St. Louisville, Ky. Starks Building Memphis, Tenn. Exchange Building Milwaukee, Wis. Public Service Building Minneapolis, Minn. 410 Third Ave., North</p>	<p>Nashville, Tenn. Stahlman Building New Haven, Conn. Second National Bank Building New Orleans, La. Maison Blanche Building New York, N. Y. Equitable Building, 120 Broadway Niagara Falls, N. Y. Gluck Building Omaha, Neb. Electric Building Philadelphia, Pa. Witherspoon Building Pittsburgh, Pa. Oliver Building Portland, Ore. Electric Building Providence, R. I. Turks Head Building Richmond, Va. Virginia Railway & Power Building Rochester, N. Y. Granite Building St. Louis, Mo. Pierce Building Salt Lake City, Utah Newhouse Building San Francisco, Calif. Rialto Building Seattle, Wash. Colman Building Spokane, Wash. Paulsen Building Springfield, Mass. Third National Bank Building Syracuse, N. Y. Onondaga County Savings Bank Building Toledo, Ohio Spitzer Building Washington, D. C. Commercial National Bank Building Worcester, Mass. State Mutual Building Youngstown, Ohio Stambaugh Building</p> <p>For TEXAS, OKLAHOMA and ARIZONA Business refer to South-west General Electric Co. Dallas, Tex. Interurban Building El Paso, Tex. 500 San Francisco Street Houston, Tex. Third and Washington Streets Oklahoma City, Okla. 1 West Grande Ave.</p> <p>For HAWAIIAN Business refer to Catton, Neill & Co., Ltd., Honolulu</p> <p style="text-align: center;">Motor and Lamp Agencies in all large cities and towns</p>
---	---

Distributors for the General Electric Company outside of the United States

INTERNATIONAL GENERAL ELECTRIC COMPANY, INC.

New York City
120 Broadway

General Sales Offices
Schenectady, N. Y.

London
83 Cannon St.

AGENTS AND REPRESENTATIVES

ARGENTINA: General Electric, S. A., Buenos Aires
 AUSTRALIA: Australian General Electric Company, Ltd., Sydney and Melbourne
 BELGIUM AND COLONIES: Societe d'Electricite et de Mecanique Procédes Thomson-Houston & Carels
 Societe Anonyme Brussels, Belgium
 BOLIVIA: International Machinery Company, La Paz and Oruro
 BRAZIL: General Electric, S. A., Rio de Janeiro and Sao Paulo
 CANADA: Canadian General Electric Company, Ltd., Toronto
 CHILE: International Machinery Company, Santiago, Antofagasta and Valparaiso
 CHINA: Anderson, Meyer & Company, Ltd., Shanghai. International General Electric Company (General Office for the Far East excluding Japan and China), Shanghai
 COLOMBIA: Wesselhoeft & Poor, Bogota and Barranquilla
 CUBA: General Electric Company of Cuba, Havana
 DUTCH EAST INDIES: International General Electric Company, Inc., Soerabaya, Java
 ECUADOR: Carlos Cordovez, Guayaquil and Quito
 EGYPT: British Thomson-Houston Company, Ltd., Cairo
 FRANCE AND COLONIES: Compagnie Francaise Thomson-Houston, 10 Rue de Londres, Paris
 GREAT BRITAIN AND IRELAND: British Thomson-Houston Company, Ltd., Rugby, England. International General Electric Company, Inc., London, E. C. 4
 GREECE AND COLONIES: Compagnie Francaise Thomson-Houston, Paris, France
 INDIA: British Thomson-Houston Company, Ltd., Calcutta and Bombay. International General Electric Company, Inc., Calcutta
 ITALY AND COLONIES: Franco Tosi Societa Anonima, Milan
 JAPAN: Shibaura Engineering Works, Tokyo, Tokyo Electric Company, Ltd., Kawasaki, Kanagawa-Ken
 MEXICO: Mexican General Electric Company, City of Mexico and Guadalajara
 NEW ZEALAND: National Electrical and Engineering Company, Ltd., Auckland, Dunedin, Christchurch and Wellington
 PARAGUAY: General Electric, S. A., Buenos Aires, Argentina
 PERU: W. R. Grace & Company, Lima
 PHILIPPINE ISLANDS: Pacific Commercial Company, Manila
 PORTO RICO: International General Electric Company, Inc., San Juan
 PORTUGAL AND COLONIES: Compagnie Francaise Thomson-Houston, Agence d'Espagne, Madrid
 RUSSIA: Wseobshtchaia Electricheskaia Kompania, Petrograd and Vladivostok
 SOUTH AFRICA: South African General Electric Company, Ltd., Johannesburg and Capetown
 SPAIN AND COLONIES: Compagnie Francaise Thomson-Houston, Agence d'Espagne, Madrid
 URUGUAY: General Electric, S. A., Montevideo
 VENEZUELA: Wesselhoeft & Poor, Caracas