

# MOTOR CONTROL & DISTRIBUTION



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# 21

## **In this Section**

Solid State Motor Starters . . .	21.2-3
Sprecher & Schuh Soft Starters . . . . .	21.4
Bussman Power Module Switch . . . . .	21.5
Heavy Duty Safety Switches . . .	21.6
Lockout/Tagout Devices . . . . .	21.6
Replacement Contact Kits . .	21.7-13



# Solid State Elevator Motor Starters

## Application

The Siemens solid-state elevator starter consists of two main components: the solid-state starter and the fault contactor.

The solid-state starter provides current limit starting and overload protection for the elevator motor. The starter also monitors potential fault conditions: shorted SCR, overload, phase reversal, and loss of phase.

Should any of these conditions occur, the starter will turn off and the fault contactor will drop out. The fault contactor pulls in as soon as three phase power is applied to the starter. The contactor will remain in until three phase power is removed or a fault condition occurs.

## Hydraulic Applications<sup>1</sup>

Catalog Number	Figure	Wired "Inside-the-Delta"							Wired "In-Line" <sup>2</sup>				
		In-Line Current (A)	200V (hp)	230V (hp)	400V (hp)	460V (hp)	575V (hp)	In-Line Current (A)	200V (hp)	230V (hp)	400V (hp)	460V (hp)	575V (hp)
72EG34AFP	1	22	5	7.5	10	15	—	—	—	—	—	—	—
72GG34AFP	1	35	7.5	10	20	25	—	18	—	5	7.5	10	—
72HG34AFP	1	42	10	15	25	30	—	22	5	7.5	10	15	—
72JG34AFP	1	55	15	20	30	40	—	28	7.5	10	15	20	—
72KG34AFP	1	68	20	25	40	50	—	35	7.5	10	20	25	—
72LG34AFP	1	80	25	30	50	60	—	42	10	15	25	30	—
72MG34AFP	1	105	30	40	60	75	—	55	15	20	30	40	—
72NG34AFP	1	130	40	50	75	100	—	68	20	25	40	50	—
72PG34AFP	1	157	50	60	100	125	—	80	25	30	50	60	—
72RD32AFP	3	252	75	100	—	—	—	130	40	50	—	—	—
72EG35AFP	1	22	—	—	10	15	20	—	—	—	—	—	—
72GG35AFP	1	35	—	—	20	25	30	18	—	—	7.5	10	15
72HG35AFP	1	42	—	—	25	30	40	22	—	—	10	15	20
72JG35AFP	1	55	—	—	30	40	50	28	—	—	15	20	25
72KG35AFP	1	68	—	—	40	50	60	35	—	—	20	25	30
72LG35AFP	1	80	—	—	50	60	75	42	—	—	25	30	40
72MG35AFP	2	105	—	—	60	75	100	55	—	—	30	40	50
72NG35AFP	2	130	—	—	75	100	125	68	—	—	40	50	60
72PG35AFP	2	157	—	—	100	125	150	80	—	—	50	60	75

<sup>1</sup> For traction applications, use the next highest rating in the Hydraulic table. For instance, a 10 HP, 230V, Inside-the-Delta, Traction application would require an elevator starter that is 15 HP in the Hydraulic table (72HE34AFP).

<sup>2</sup> Units are supplied from the factory with wiring for "Inside-the-Delta." Rewiring the unit for "In-Line" is simple and quick. Refer to the instruction manual.

\*The Starts Per Hour rating is based on the number of times the motor starts. Since the motor runs only on "up" calls, the Calls Per Hour rating is twice the Starts Per Hour rating. For applications requiring 120 Starts Per Hour (240 Calls Per Hour) on Hydraulic Elevators, use a starter sized to the next larger motor rating. For example, for a 120 Starts Per Hour rating on a 40 HP motor use a 50 HP rated Elevator Starter.

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# Solid State Elevator Motor Starters

## Features

- Selectable Motor Off Delay
- Fault Contactor Monitors:
  - Overload
  - Shorted SCR
  - Phase Reversal
  - Loss of Phase
- For use on 6 or 12 Lead Wye-Delta Wound Motors and for 3 Lead Motors
- Normal Condition Indicators:
  - Normal Forward Phase
  - Control Power On
  - Motor Run
  - Motor Up to Speed
- Fault Condition Indicators:
  - Motor Overload
  - Shorted SCR
  - Single Phase
- Copper/aluminum lugs are supplied with all units as standard.

## Electrical Data

### Operating Frequency

60 Hz-Hp rated, 50 Hz-kW rated

### Input Voltage

+/- 15% of nominal voltage

### Operating Temperature

0°C to 50°C (32°F to 122°F)  
Derate 33% for each 10°C over 50°C to a maximum of 70°C

### Overload Rating

Class 10–Solid-State Overload Relay,  
Less than 10 second trip @ 600%  
of must hold amps

### Short Circuit Protection

Not provided: To be supplied by customer

### Controller Duty Cycle Rating

Hydraulic Elevator Duty: 30% Duty Cycle –  
80 starts per hour\* (160 calls per hour)  
Traction Elevator Duty: 95% Duty Cycle  
–10 starts per hour

### Off Delay

Approximately ½ sec after removal of  
Motor Run signal when selected.  
Approximately 30 milliseconds when not  
selected

All diagram dimensions are in inches, and are for  
reference only, not for construction.

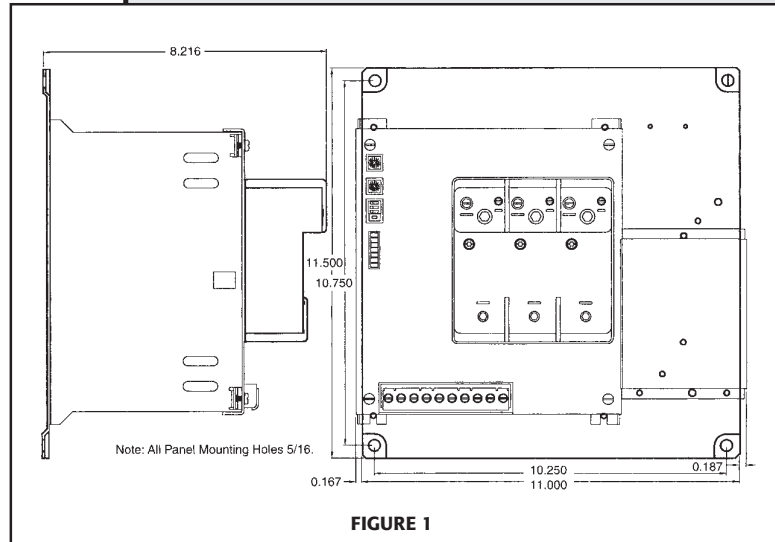


FIGURE 1

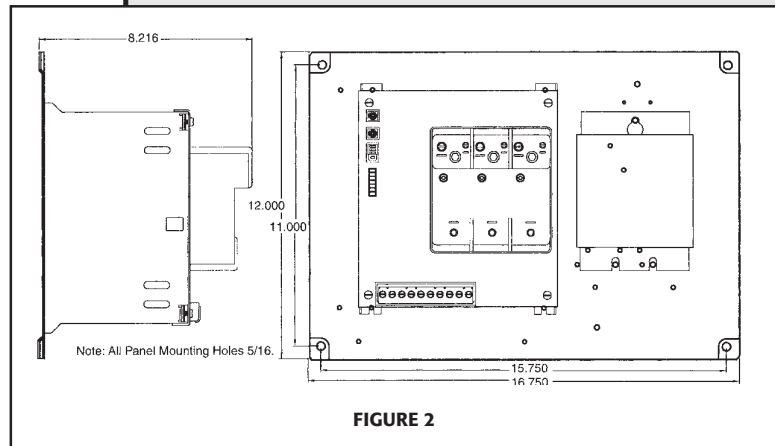


FIGURE 2

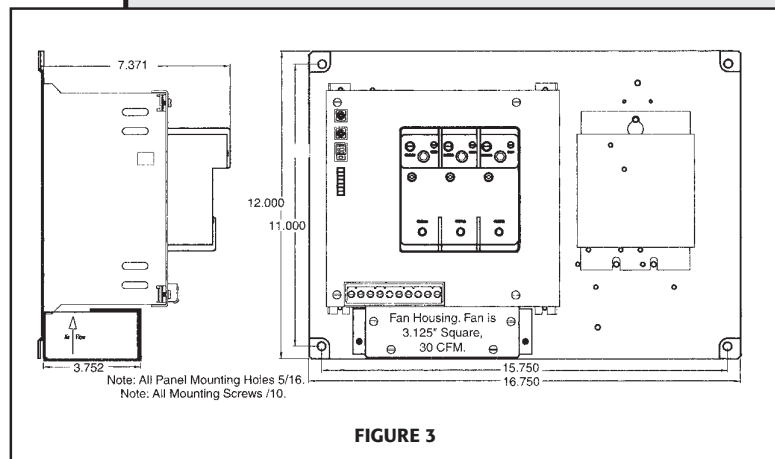


FIGURE 3

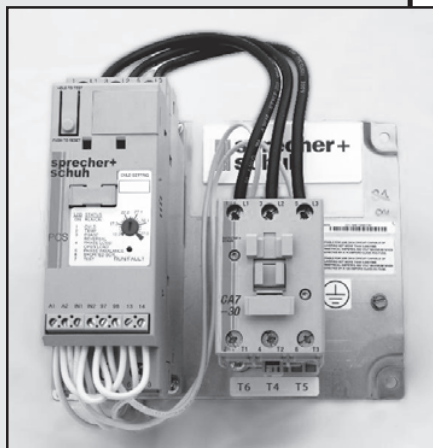
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# Sprecher & Schuh PCEC Hydraulic Elevator Softstarters

Thinking of replacing that old mechanical contactor with a softstarter but are concerned about it fitting...

The PCEC is much smaller than other commonly used softstarters. It's the ideal wye-delta contactor replacement because it typically fits within the existing contactor footprint. The PCEC is supplied mounted to a back panel but the components will also snap on a DIN rail.



### Diagnostics:

- Overload
- Over temp protection
- Phase reversal
- Phase loss/open Load
- Phase imbalance
- Shorted SCR
- Test overload

### Features:

- Selectable overload class, 10, 15, 20, off
- Phase imbalance selectivity
- LED diagnostic & run display
- ½-sec "hold-in" display
- "Up-to-speed" contact

## Elevator Softstarter

Part Number	DELTA Connected (6 Wire) H.P. Ratings				Overload Range (Amps)	LINE Connected (3 Wire) H.P. Ratings				Overload Range (Amps)
	3-PHASE 50/60 Hz					3-PHASE 50/60 Hz				
120VAC Control Voltage	208V	240V	480V	575V		208V	240V	480V	575V	
PCEC-032-600V-120V/240V	10	10	20	30	10.9...32.9	5	5	10	15	6.3...19
PCEC-051-600V-120V/240V	15	15	30	40	17.3...51.9	7.5	10	20	25	10...30
PCEC-064-600V-120V/240V	20	20	40	60	21...64	10	10	25	30	12.3...37
PCEC-074-600V-120V/240V	20	25	50	60	25...74	10	15	30	40	14.3...43
PCEC-104-600V-120V/240V	30	40	75	100	84.6...104	15	20	40	50	20...60
PCEC-147-600V-120V/240V	40	50	100	150	50...147	25	30	60	75	28.3...85
PCEC-234-600V-120V/240V	75	75	150	200	59...234	40	50	100	125	34...135

## Replacement Parts

PCEC Assembly	PCE Controller Only	PCE Fans	Fault Contactor	Fault Contactor Coils*	
				120vac	208 - 240vac
PCEC-032-600V-120V	PCEC-032-600V		CA7-37-00-120		
PCEC-051-600V-120V	PCEC-051-600V		CA7-37-00-120	TC473	TC296
PCEC-064-600V-120V	PCEC-064-600V	PCV-064 (optional)	CA7-37-00-120		
PCEC-074-600V-120V	PCEC-074-600V		CA7-43-00-120	TD473	TD296
PCEC-104-600V-120V	PCEC-104-600V	PCV-147	CA7-60-00-120	TE473	TE296
PCEC-147-600V-120V	PCEC-147-600V		CA7-85-00-120	TE473	TE296
PCEC-234-600V-120V	PCEC-234-600V	PCV-234	CA6-180-EI-11-120	CA6-TGE865	CA6-TGE866

\* The PCE controller's control voltage operating range is 100-240vac. The coil voltage of the fault contactor determines the control voltage of the PCEC assembly.

## Dimensions

Controller Sizes	Units	Width	Height	Depth	Approx. Weight
32 / 51 / 64	mm	178	144	115.7	4 lbs
	inch	7.01	5.67	4.56	
74 / 104 / 147	mm	240	225	147.9	14 lbs
	inch	9.45	8.86	5.82	
234	mm	362	515	216.4	51 lbs
	inch	14.25	20.28	8.52	

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# Power Module Switch

## Power Module Switch

Available in switch combinations from 30 to 400 amps. All with shunt trip capabilities from a 120 volt control circuit.

### Silver Alloy Contacts

Durable silver tungsten alloy contacts stand up to use, while providing superior conductivity. (Inside, not visible in photo.)

### 1. Safety Features

A cover interlock prevents the door from opening while the circuit is energized. The interlock can be overridden to permit testing or inspection with the switch in the ON position.

### 2. Handle Lock-Off

The rotary handle of the Bussmann Power Module can be locked in the OFF position with as many as three padlocks. When properly "locked-out," personnel are assured that load side power is de-energized.

### 3. UL Listed Shunt Trip Attachment

Standard on the 30 through 400 amp PS. All switches 600 volt rated.

### 4. Class J Fuse Clips are standard

Provides 200,000 RMS symmetrical amp fault interruption with the industry's ultimate protection for sensitive downstream components.

### 5. Visible Blades

No more guess work about whether the switch is ON or OFF. With one glance, you can see that circuit is open.

### 6. Electrically Welded Connections

Strong welded internal connections provide low resistance and low heat loss, while also ensuring long service life.

### 7. Control Power, Interfacing Relay Scheme Options

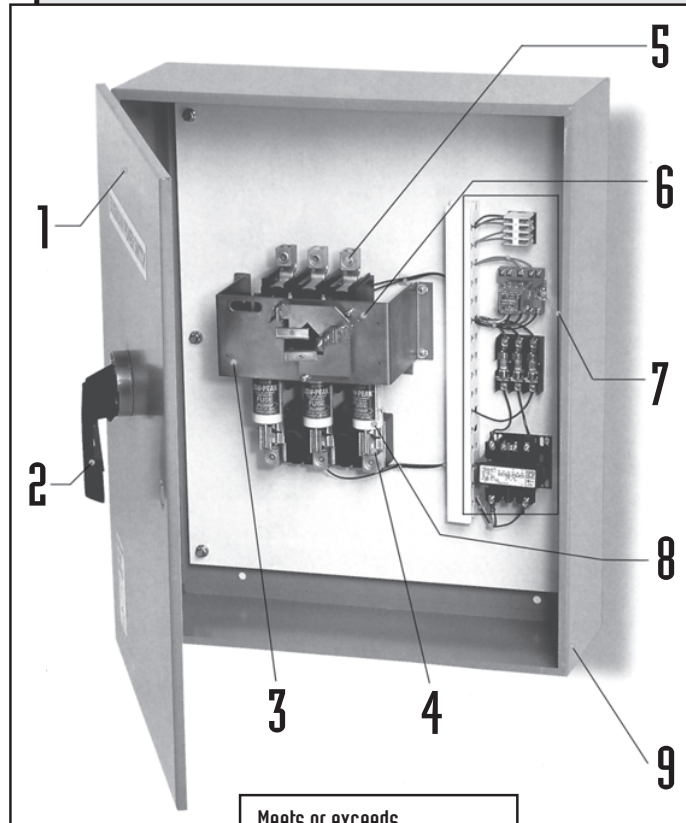
Available for fire safety and other critical performance needs.

### 8. High Pressure Fuse Holders

A high-tension spring applies pressure to both arms of the switch's integrated fuse holders to provide consistent contact and reduce resistance.

### 9. Enclosure

Standard: NEMA 1 Oversized  
Optional: NEMA 3R, NEMA 12, NEMA 4



Meets or exceeds applicable standards:

#### Underwriters Laboratories

- UL50 – Enclosures
- UL98 – Enclosed Switches

#### Federal Specs

- WS-865C – Fused Switches

#### ASME/ANSI

- A17.1-1993 – Fire Safety Shutdown

#### NEC

- 620-51 (a-b)
- 620-62
- 645-10

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**250 V Rated, 1Ø Phase & 3Ø Phase**

Part Number	Part Number	Amp
1Ø Phase	3Ø Phase	
HF221N	–	30
HF222N	–	60
–	H323N	100
–	H324N	200

**600 V Rated, 3Ø Phase**

Part Number	Amp	Part Number	Amp
HF361N	30	HF363N	100
HF362N	60	HF364N	200

**Lockout/Tagout Devices**

Part Number	Description
IDEAL44785	Cleat for 277V Breaker Lockout
IDEAL44786	480/600V Lockout
IDEAL44789	Wall Switch Lockout
IDEAL44807	480/600V Multi-Pole Breaker Lockout
IDEAL44809	Universal 277V SP Breaker Lockout
IDEAL44810	Hinged 1-Pole Breaker Lockout
CSRK436	Combination Padlock
PANPSL1	Padlock Hasp, 1" Jaw w/Overlapping Tabs
ED602	Padlock Hasp, 1" Jaw without Tabs
PANPVT57Q	Lockout Tag "Locked to protect workman repairing machinery," 25pk


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# Heavy Duty Safety Switches

**UL (NEMA) Type 1**
**General Purpose**

- Indoor use
- Heavy duty and general duty versions
- Made of code gauge steel given a rust-inhibiting treatment
- Provided with three- or four-point latching door
- Switches rated through 200 amperes provided with ample knockouts
- Switches rated 400 through 1200 amperes provided without knockouts
- Front-operated handles and narrow cover width to allow switches from 30 through 200 amperes to be mounted adjacent to one another
- 60-ampere heavy duty switch provided with a HUBBELLOCK®, Appleton or ARKTITE® interlocked receptacle to permit direct load/switch connection and disconnection
- Electrical interlock installable on heavy duty switches through 600 amperes


**TYPE 1**
**UL (NEMA) Type 3R**
**Rainproof**

- Outdoor use
- Available in ratings through 1200 amperes
- Made of galvanized sheet steel given a rust-inhibiting treatment. Gray electro-deposited enamel finish
- Top-hinged cover securable in the open position
- Factory-installed B-cap for immediate closure when no top conduit connection will be made
- Provisions for interchangeable bolt-on B-hubs that can be threaded onto conduit through the top endwall, eliminating the need for heavy conduit junctions
- Extruded lip on top endwall opening eliminates the need for gasketing to ensure tight closure
- Tangential openings for conduit eliminate need for offsets and bends
- Blank top endwalls on enclosures of switches rated above 200 amperes
- Enclosures of switches rated up to 200 amperes are provided with knockouts—below the level of the lowest live parts to maintain the integrity of the rainproof design
- Electrical interlock installable on heavy duty switches through 600 amperes


**TYPE 3R**

# Replacement Contact Kits

**CED is your source for quality, low cost replacement contact kits for the following manufacturers...**

ASEA Brown Boveri	Allen Bradley	Arrow Hart
Cutler-Hammer	Federal Pacific	Furnas
General Electric	Joslyn-Clark	Siemens-Allis
Sprecher + Schuh	Square "D"	Ward Leonard
Westinghouse	Telemecanique (ITE/Gould)	

## ABB — General Purpose

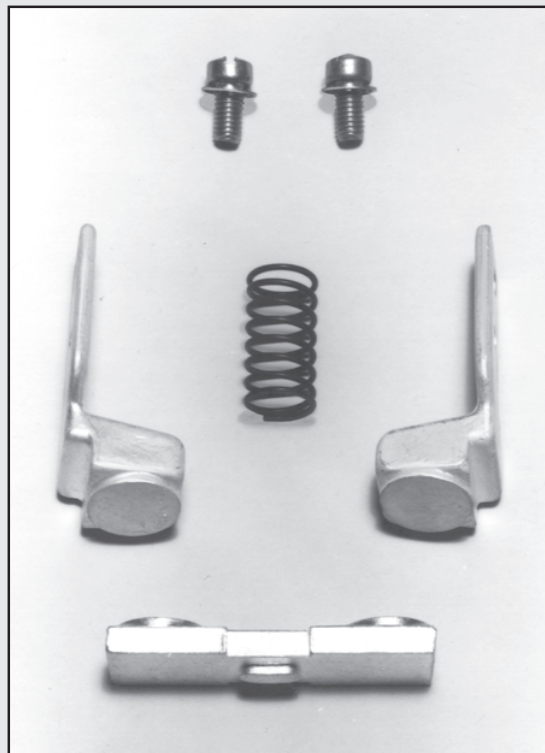
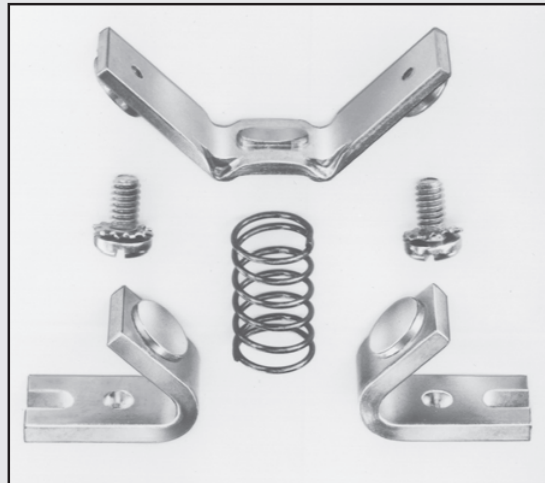
OEM Number	Replacement Number	Description
EG801CK	9233CB	Size 3, 3 pole
EG80CK2P	K632	Size 3, 2 pole
EG1601CK	9243CB	Size 4, 3 pole
EG160CK2P	K642	Size 4, 2 pole
EG3151CK	9253CB	Size 5, 3 pole
EG315CK2P	K652	Size 5, 2 pole
EG60302CK	9263CB	Size 6, 3 pole
EG630CK2P	K662	Size 6, 2 pole
EG900CK	9273CB	Size 7, 3 pole

## ABB — Drive Contactors

OEM Number	Replacement Number	Description
EFLG80CK	9333CB	110 amp, 3 pole
EFLG80CK2P	K932	110 amp, 2 pole
EFLG160CK	9343CB	180 amp, 3 pole
EFLG160CK2P	K942	180 amp, 2 pole
EFLG280CK	9353CB	280 amp, 3 pole
EFLG280CK2P	K952	280 amp, 2 pole
EFLG315CK	9363CB	360 amp, 3 pole
EFLG315CK2P	K962	360 amp, 2 pole
EFLG630CK	9373CB	535 amp, 3 pole
EFLG630CK2P	K972	535 amp, 2 pole

## Allen-Bradley — Series K

OEM Number	Replacement Number	Description
Z-21101	K156	Size 00, 2 pole
Z-21102	K157	Size 00, 3 pole
Z-21103	9194CA	Size 00, 4 pole
Z-34037	9101CA	Size 0, 1 pole
Z-34038	9111CA	Size 1, 1 pole
Z-34039	9121CA	Size 2, 1 pole
Z-34040	9131CA	Size 3, 1 pole
Z-34041	9141CA	Size 4, 1 pole
Z-34042	9151CA	Size 5, 1 pole
Z-34043*	9351CA	Size 5, 1 pole



### Certificate of Conformance

Hoyt Corporation certifies that its contacts are equal to OEM contacts in form, fit and function and meet or exceed our quality specifications of the OEM part. Hoyt further certifies that its contacts are being manufactured for the commercial market as an equivalent.

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# Replacement Contact Kits

## ABB — Drive Contactors

OEM Number	Replacement Number	Description
EFLG80CK	9333CB	110 amp, 3 pole
EFLG80CK2P	K932	110 amp, 2 pole
EFLG160CK	9343CB	180 amp, 3 pole
EFLG160CK2P	K942	180 amp, 2 pole
EFLG280CK	9353CB	280 amp, 3 pole
EFLG280CK2P	K952	280 amp, 2 pole
EFLG315CK	9363CB	360 amp, 3 pole
EFLG315CK2P	K962	360 amp, 2 pole
EFLG630CK	9373CB	535 amp, 3 pole
EFLG630CK2P	K972	535 amp, 2 pole

## ABB — General Purpose

OEM Number	Replacement Number	Description
EG801CK	9233CB	Size 3, 3 pole
EG80CK2P	K632	Size 3, 2 pole
EG1601CK	9243CB	Size 4, 3 pole
EG160CK2P	K642	Size 4, 2 pole
EG3151CK	9253CB	Size 5, 3 pole
EG315CK2P	K652	Size 5, 2 pole
EG60302CK	9263CB	Size 6, 3 pole
EG630CK2P	K662	Size 6, 2 pole
EG900CK	9273CB	Size 7, 3 pole

## Allen-Bradley — Series A

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
X-33977	6802CA	Size 0, Short Stationary	X-36670	1012CA	Size 2, Movable
X-35162	6801CA	Size 0, Long Stationary	X-36703	6806CA	Size 3, Stationary
X-33553	1010CA	Size 0, Movable	X-36671	1013CA	Size 3, Movable
X-33519	6804CA	Size 1 & 1P, Short Stationary	X-67541	6807CA	Size 4, Stationary
X-35163	6803CA	Size 1 & 1P, Long Stationary	X-119624	1014CA	Size 4, Movable
X-33552	1011CA	Size 1 & 1P, Movable	X-98909	6808CA	Size 5, Stationary
X-36702	6805CA	Size 2, Stationary	X-104555	1015CA	Size 5, Movable

## Allen-Bradley — Series K

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
Z-21101	K156	Size 00, 2 pole	Z-34039	9121CA	Size 2, 1 pole
Z-21102	K157	Size 00, 3 pole	Z-34040	9131CA	Size 3, 1 pole
Z-21103	9194CA	Size 00, 4 pole	Z-34041	9141CA	Size 4, 1 pole
Z-34037	9101CA	Size 0, 1 pole	Z-34042	9151CA	Size 5, 1 pole
Z-34038	9111CA	Size 1, 1 pole	Z-34043*	9351CA	Size 5, 1 pole

## Aromat

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
BM6-35-901	9823CLX	Size 1++, 3 pole	BM6-85-901	9853CLX	Size 3+, 3 pole
BM6-50-901	9823CLX	Size 2+, 3 pole	BM6-125-901	9863CLX	Size 3++, 3 pole
BM6-65-901	9853CLX	Size 2++, 3 pole	BM-160-901	9883CLX	Size 4+, 3 pole
BM6-80-901	9853CLX	Size 3, 3 pole	BM6-190-901	9883CLX	Size 4++, 3 pole

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# Replacement Contact Kits



## Cutler-Hammer — Series A1

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
6-23	K705	Size 1, 2 pole	6-25-2	9133CC	Size 3, 3 pole
6-23-2	9113CC	Size 1, 3 pole	6-26	K730	Size 4, 2 pole
6-23-3	K707	Size 1, 4 pole	6-26-2	9143CC	Size 4, 3 pole
6-23-4	K708	Size 1, 5 pole	6-27	K735	Size 5, 2 pole
6-24	K710	Size 2, 2 pole	6-27-2	9153CC	Size 5, 3 pole
6-24-2	9123CC	Size 2, 3 pole	6-28	K738	Size 6 & 7, 2 pole
6-25	K720	Size 3, 2 pole	6-28-2	9163CC	Size 6 & 7, 3 pole

## Cutler-Hammer — Series B1

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
6-34	K712	Size 2, 2 pole	6-35-2	9233CC	Size 3, 3 pole
6-34-2	9223CC	Size 2, 3 pole	6-36	K732	Size 4, 2 pole
6-34-3	K714	Size 2, 4 pole	6-36-2	9243CC	Size 4, 3 pole
6-34-4	K715	Size 2, 5 pole	6-36-3	K728*	Size 4, 2 pole
6-35	K722	Size 3, 2 pole	6-36-4	K729*	Size 4, 3 pole

\*Kits supplied without contact bar.

## Cutler-Hammer — Freedom Series, IEC

OEM Number	Replacement Number	Description
6-65-4	9823CC	Size G, 3 pole
6-65-6	9893CC	Size H, 3, pole
6-65-8	9823CC	Size J, 3 pole
6-65-17	9823CC	Size K, 3 pole
6-43-4	9833CC	Size L, 3 pole
6-43-2	9833CC	Size M, 3 pole
6-43-6	9733CC	Size N, 3 pole

## Freedom Series, NEMA

OEM Number	Replacement Number	Description
6-65-2	9813CC	Size 1, 3 pole
6-65-8	9823CC	Size 2, 3 pole
6-43-2	9833CC	Size 3, 3 pole
6-44-2	9843CC	Size 4, 3 pole
6-45-2	9853CC	Size 5, 3 pole

## Furnas — Innova 45 Series

OEM Number	Replacement Number	Description
75DF14	9210CF	Size 1, 1 pole
75EF14	9215CF	Size 1¼, 1 pole
75FF14	9220CF	Size 2, 1 pole
75FP14	9320CF	Size 2, 1 pole
75GF14	9225CF	Size 2½, 1 pole
75GP14	9325CF	Size 2½, 1 pole
75HF14	9230CF	Size 3, 1 pole
75IF14	9235CF	Size 3½, 1 pole

## Furnas — Model B

OEM Number	Replacement Number	Description
75FB14A	9120CF	Size 2, 1 pole
75GB14	9125CF	Size 2½, 1 pole
75HB14	9130CF	Size 3, 1 pole
75IB14	9135CF	Size 3½, 1 pole
75JB14	9140CF	Size 4, 1 pole
75RB14	9145CF	Size 4½, 1 pole
75KB14	9150CF	Size 5, 1 pole

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# Replacement Contact Kits

## General Electric — 100, 200 & 300 Line

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
232A6724G009	9763CG	Size 6, 3 pole	546A780G051	9723CG	Size 2, 3 pole
232A6724G011	K435	Size 6, 2 pole	55153677G001	K403	Size 3, 1 pole
546A300G002	9704CG	Size 0, 4 pole	55153677G002	9733CG	Size 3, 3 pole
546A300G010	K420	Size 0, 4 pole	55153678G002	9743CG	Size 4, 3 pole
546A301G002	9714CG	Size 1, 4 pole	55154607G002	9753CG	Size 5, 3 pole
546A301G053	9714CG	Size 1, 4 pole	55154607G041	9753CG	Size 5, 3 pole
546A780G002	9723CG	Size 2, 3 pole	55186556G004	9753CGA	Size 6, 3 pole

## General Electric — Spectra 700 series

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
CR7XDG	9313CG	3 Pole, 37 amp, CR7CG	G203C	K351	Size 1 & 1P, 3 pole
CR7XDH	9313CG	3 Pole, 45 amp, CR7CH	G203D	K352	Size 2, 3 pole
CR7XDJ	9323CG	3 Pole, 56 amp, CR7CJ	G203E	K353	Size 3, 3 pole
CR7XDK	9323CG	3 Pole, 73 amp, CR7CK	G203F	K354	Size 4, 3 pole
CA5F2CPR1	9323CG	3 Pole, 105 amp, CA5F2	G203G	K355	Size 5, 3 pole

## ITE — Gould

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
G203C	K351	Size 1 & 1P, 3 pole	G203D	K352	Size 2, 3 pole
G203E	K353	Size 3, 3 pole	G203F	K354	Size 4, 3 pole
G203G	K355	Size 5, 3 pole			

## Joslyn Clark — Sylvania, CY Series

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
CY-31-1	9413CD	Size 1, 3 pole	KTM25-1	K785	Size 5, 2 pole
CY-32-1	9423CD	Size 2, 3 pole	KTM31-1	9583CD	Size 00, 0 & 1, 3 pole
CY-33-1	9433CD	Size 3, 3 pole	KTM32-1	9523CD	Size 1P & 2, 3 pole
CY-34-1	9443CD	Size 4, 3 pole	KTM33-1	9533CD	Size 3, 3 pole
CY-43-1	K116	Size 3, 4 pole	KTM34-1	9543CD	Size 4, 3 pole
CY-44-1	K121	Size 4, 4 pole	KTM35-1	9553CD	Size 5, 3 pole

## Clark, TM Series

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
KTM25-1	K785	Size 5, 2 pole	KTM31-1	9583CD	Size 00, 0 & 1, 3 pole
KTM31-1	9583CD	Size 00, 0 & 1, 3 pole	KTM32-1	9523CD	Size 1P & 2, 3 pole
KTM32-1	9523CD	Size 1P & 2, 3 pole	KTM33-1	9533CD	Size 3, 3 pole
KTM33-1	9533CD	Size 3, 3 pole	KTM34-1	9543CD	Size 4, 3 pole
KTM34-1	9543CD	Size 4, 3 pole	KTM35-1	9553CD	Size 5, 3 pole
KTM35-1	9553CD	Size 5, 3 pole			

## Mitsubishi

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
BH509301	n/a	3 Pole, S-K10	BH569N301	9163CX	3 Pole, S-K95
BH509N301	n/a	3 Pole, S-K11	BH569N302	9253CX	3 Pole, SD-K80
BH519N304	n/a	3 Pole, S(D)K10, S-K12	BH569N303	9263CX	3 Pole, SD-K95
BH529N301	9103CX	3 Pole, S-K18, K19	BH579N301	9173CX	3 Pole, S-K125
BH539N300	9203CX	3 Pole, BH539N300 S(D)K13	BH579N304	n/a	3 Pole, SD-K125
BH549N300	9113CX	3 Pole, S-K25	BH589N300	n/a	3 Pole, S(D)K150
BH549N301	9213CS	3 Pole, S(D)K35	BH599N300	n/a	3 Pole, S-K50
BH559N301	9243CX	3 Pole, S-K65	BH599N300	n/a	3 Pole, S(D)K220
BH559N302	9233CX	3 Pole, SD-K50	BH599N301	n/a	3 Pole, S-K180
BH559N303	9243CX	3 Pole, SD-K65	BH609N300	n/a	3 Pole, S(D)K300
BH559N306	9123CX	3 Pole, S-K38	BH609N301	n/a	3 Pole, S(D)K400
BH559N307	9223CX	3 Pole, S-K48	BH619N300	n/a	3 Pole, S-K600
BH569N300	9153CX	3 Pole, S-K80	BH619N301	n/a	3 Pole, S-K800

### Questions? Answers at...

# Replacement Contact Kits



## Siemens-Allis — Value Line

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
25-106-921-812	9114CV	Size 1, 4 Pole	14-124-454-001	n/a	Size 4+, 1 Pole
25-106-922-812	9123CV	Size 2, 3 Pole	14-125-864-001	n/a	Size 5, 1 Pole
25-106-923-812	9133CV	Size 3, 3 Pole	14-133-172-001	n/a	Size 6, 1 pole
25-106-924-812	9143CV	Size 4, 3 Pole			

## Siemens-Allis — World Series — AC Contactors

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
3TY6440-OA	9503CV	Size 1, 3 Pole, 3TB Series	3TY7470-OA	9723CV	Size 2½, 3 Pole, 3TF Series
3TY6460-OA	9513CV	Size 2, 3 Pole, 3TB Series	3TY7480-OA	9733CV	Size 3, 3 Pole, 3TF Series
3TY6470-OA	9523CV	Size 2½, 3 Pole, 3TB Series	3TY7500-OA	9753CV	Size 3½, 3 Pole, 3TF Series
3TY6480-OA	9533CV	Size 3, 3 Pole, 3TB Series	3TY7520-OA	n/a	Size 4, 3 Pole, 3TF Series
3TY6500-OA	9543CV	Size 3½, 3 Pole, 3TB Series	3TY7520-OB	n/a	Size 4, 3 Pole, 3TF Series
3TY6520-OA	9553CV	Size 4, 3 Pole, 3TB Series	3TY7540-OA	9763CV	Size 4½, 3 Pole, 3TF Series
3TY6540-OA	9563CV	Size 4½, 3 Pole, 3TB Series	3TY7540-OB	n/a	Size 4½, 3 Pole, 3TF Series
3TY6560-OA	9573CV	Size 5, 3 Pole, 3TB Series	3TY7560-OA	9733CV	Size 5, 3 Pole, 3TF Series
3TY6580-OA	9583CV	Size 6, 3 Pole, 3TB Series	3TY7560-OB	n/a	Size 5, 3 Pole, 3TF Series
3TY7440-OA	9703CV	Size 1, 3 Pole, 3TF Series	3TY7580-OA	9883CV	Size 6, 3 Pole, 3TF Series
3TY7460-OA	9713CV	Size 2, 3 Pole, 3TF Series			

\* Kits supplied with all hardware except elastic spring retainer

## Sprecher & Schuh

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
22.102.217-03	n/a	Sizes 0 & 00, 3 Pole, CA1-10	22.105.212-03	9243CR	Size 4½, 3 Pole, CA1-150
22.109.212-02	9113CR	Sizes 1 & 1¼, 3 Pole, CA1-14 & 16	22.106.212-02	9153CR	Size 5, 3 Pole, CA1-250
22.110.212-02	9123CR	Size 2, 3 Pole, CA1-25	22.701.214-01	9433CR	Size 1, 3 Pole, CA3-37
22.114.212-02	9223CR	Size 2½, 3 Pole, CA1-40	22.701.215-01	9433CR	Size 2, 3 Pole, CA3-43
22.104.212-04	9133CR	Size 3 & 3½, 3 Pole, CA1-55/60	22.701.216-01	9433CR	Size 2½, 3 Pole, CA3-60
22.104.212-06	9143CR	Size 4, 3 Pole, CA1-100	22.701.217-01	9433CR	Size 2¾, 3 Pole, CA3-72

### Questions? Answers at...

Western US: 866 CED-ELEV Eastern US: 866-253-2915  
 or 866-233-3538 • Fax 562-427-8429 or 860-256-2211 • Fax 860-290-8970

# Replacement Contact Kits

## Square D — Class 9998

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
HA-81	9563CS	Size 6, 3 pole	SL-9	9743CS	Size 4, 3 pole
HA-82	9663CS	Size 6, 3 pole	SL-10	K550	Size 5, 2 pole
JA-81	9673CS	Size 7, 3 pole	KA-81	K558	Size 8, 3 pole
HC-1	9948CS	Size 1, 2 pole	SL-11	9753CS	Size 5, 3 pole
HD-1	9941CS	Size 2, 2 pole	SL-12	K506	Size 00 & 0, 4 pole
HE-1	9951CS	Size 3, 2 pole	SL-13	K515	Size 1, 4 pole
HF-1	9952CS	Size 4, 2 pole	SL-14	K525	Size 2, 4 pole
HG-1	9953CS	Size 5, 2 pole	CA81	9613CS	Size 1, 3 pole
HH-1	9954CS	Size 6, 1 pole	CA82	K514	Size 1, 4 pole
SL-2	9703CS	Size 00 & 0, 3 pole	SA81	9513CS	Size 1, 3 pole
SL-3	9713CS	Size 1 & 1P, 3 pole	SA82	K513	Size 1, 4 pole
SL-4	9723CS	Size 2, 3 pole	TA81	9623CS	Size 2, 3 pole
SL-6	K530	Size 3, 2 pole	TA82	K524	Size 2, 4 pole
SL-7	9733CS	Size 3, 3 pole	UA81	9633CS	Size 3, 3 pole
SL-8	K540	Size 4, 2 pole			

## Telemecanique

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
G203C	9813CT	Size 1, 3 Pole, Gould/ITE	LA5-FG431	9423CT	3 Pole, LC1F185 Series
G203D	9823CT	Size 2, 3 Pole, Gould/ITE	LA5-FH431	9433CT	3 Pole, LC1F265 Series
G203E	9833CT	Size 3, 3 Pole, Gould/ITE	LA5-FJ431	9453CT	3 Pole, LC1FJ43 Series, 300 amp
G203F	9843CT	Size 4, 3 Pole, Gould/ITE	LA5-FK431	9463CT	3 Pole, LC1FK43 Series, 540 amp
G203G	9853CT	Size 5, 3 Pole, Gould/ITE	LA5-FL431	9473CT	3 Pole, LC1FL43 Series, 900 amp
LA5-FF431	9413CN	3 Pole, LC1F115-F150 Series	LA5-F400803	9453CN	3 Pole, LC1F330-F400 Series

## Ward Leonard — Series 5000 DP, 5999, 7400, 5950, 5960

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
5M45	K930	Size 5, 1 pole	5M53	9130CY	Size 3, 1 pole
5M49	9134CY	Size 3 & 4, 1 pole	5M54	9130CY	Size 4, 1 pole
5M52	9120CY	Size 2, 1 pole	5M56	9145CY	Size 4½, 1 pole

### Questions? Answers at...

# Replacement Contact Kits



## Westinghouse — Type A200, N & NF, Ampgard, M & MD, APC

OEM Number	Replacement Number	Description	OEM Number	Replacement Number	Description
1605202	9123CW	Size 2, 3 pole	373B331G11	9222CW	Size 2, 2 pole
1605212	9113CW	Size 1, 3 pole	373B331G12	9223CW	Size 2, 3 pole
1620145	9152CW	Size 5, 2 pole	373B331G13	9224CW	Size 2, 4 pole
1620146	9153CW	Size 5, 3 pole	373B331G14	9225CW	Size 2, 5 pole
1625563	9133CW	Size 3, 3 pole	373B331G18	9294CW	Size 00, 4 pole
1625564	9143CW	Size 4, 3 pole	461A757G17	9271CW	Size 7, 1 pole
180C180G01	K127	35 amp, 2 pole	477B477G01	K001	Size 5, 1 pole
180C180G02	9503CW	35 amp, 3 pole	477B477G03	K006	Size 5, 1 pole
180C180G05	K129	100 amp, 2 pole	477B477G05	9251CW	Size 5, 1 pole
180C180G06	9513CW	100 amp, 3 pole	477B477G06	K120	Size 5, 1 pole
2066A10G11	9261CW	Size 6, 1 pole	5250C81G01	K124	Size 4, 2 pole
2147A22G01	9643CW	200 amp, 3 pole	5250C81G16	K124	Size 4, 2 pole
2147A42G01	9663CW	400 amp, 3 pole	5250C81G02	K125	Size 4, 3 pole
2147A72G01	9673CW	700 amp, 3 pole	5250C81G17	9243CW	Size 4, 3 pole
2147A72G02	9673CW	700 amp, 3 pole H.D.	626B187G12	9232CW	Size 3, 3 pole
217A700G15	9761CW	Size 6, 1 pole	626B187G13	9233CW	Size 3, 3 pole
2184A10G14	9521CW	10/150 amp, 1 pole	626B187G14	9234CW	Size 3, 4 pole
26D2610G14	9401CW	100/150 amp, 1 pole	626B187G15	9235CW	Size 3, 5 pole
26D2610G15	9411CW	300 amp, 1 pole	626B187G16	9242CW	Size 4, 2 pole
26D2610G16	9421CW	900 amp, 1 pole	626B187G17	9243CW	Size 4, 3 pole
26D2610G18	9431CW	1350 amp, 1 pole	626B187G18	9244CW	Size 4, 4 pole
26D2610G19	9481CW	1350 amp, 1 pole	626B187G19	9245CW	Size 4, 5 pole
26D2610G20	9441CW	2500 amp, 1 pole	646C829G05	9281CW	Size 8, 1 pole
26D2610G21	9451CW	100/150 amp, 1 pole	672B788G03	K081	Size 2½, 5 pole
26D2610G22	9461CW	300 amp, 1 pole	672B788G09	9703CW	Size 2½, 3 pole
26D2610G23	9471CW	900 amp, 1 pole	672B839G01	K077	250 amp, 2 pole DP Model A
26D2610G24	9771CW	900 amp, 1 pole	672B839G02	9707CW	250 amp, 3 pole DP Model A
373B331G04	9204CW	Size 0, 4 pole	672B839G21	K075	250 amp, 2 pole DP Model B
373B331G07	9212CW	Size 1, 2 pole	672B839G22	9709CW	250 amp, 3 pole DP Model B
373B331G09	9214CW	Size 1, 4 pole			

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