

# **Section C** Switches, Breakers, Controls

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**Siemens Loadcenters**

**Siemens Disconnect Switches**

**Siemens Panelboards**

**Siemens Motor Control**

**Magnetic Motor Starters**

**Combination Starters**

**Reversing Starters**

**Lighting Contactors**

**Definite Purpose Contactors**

**Multi-Pole Relays**

**Plug-In Relays**

**Pushbuttons**

**Renewal Parts**



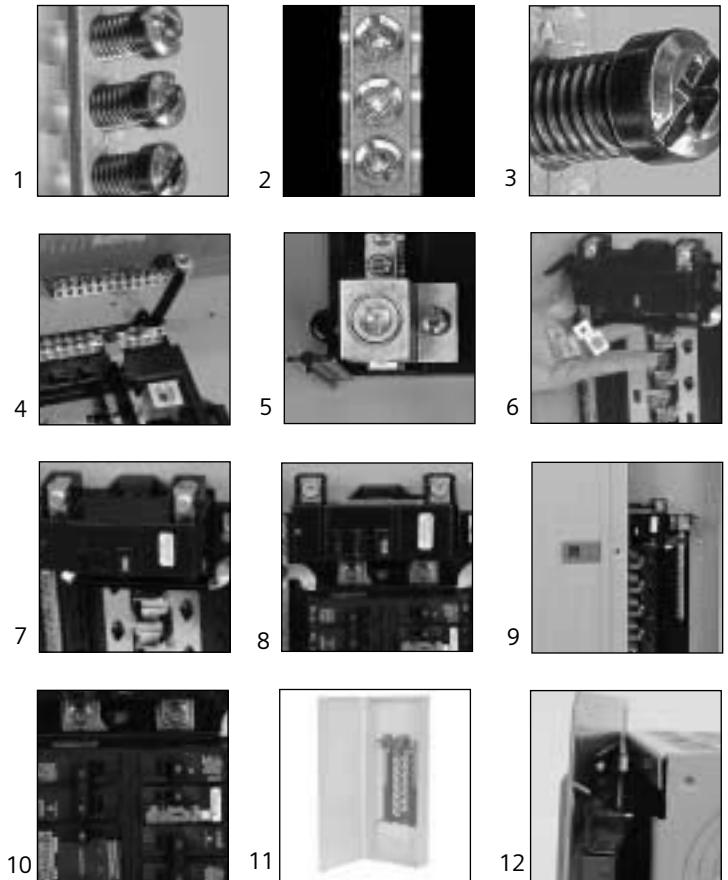
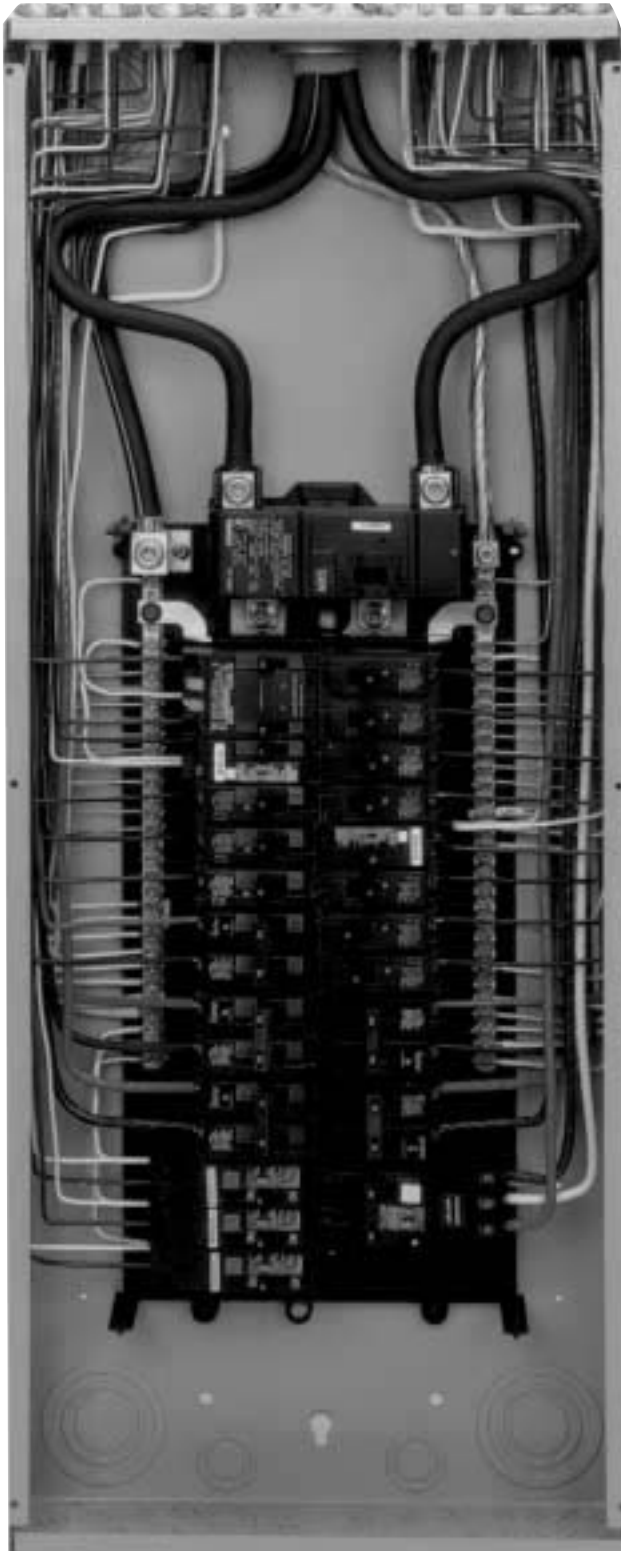




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## SIEMENS ULTIMATE LOAD CENTER

### Features



1. *INSTA-WIRE*<sup>®</sup> neutrals and grounds provide quick and easy neutral conductor installation.
2. Visible neutrals make insertion of neutral conductors easier.
3. Neutral, ground, breaker, trim, bond, upper pan adjusting, and wire binding screws come up with a slot/square combination head.
4. Factory installed, *INSTA-WIRE* visible ground bars on main lug devices.
5. Pre-positioned bond screw makes bonding a snap.
6. All devices are main convertible from main lug to main breaker and vice-versa.
7. All devices are main straight in wired.
8. New horizontal main breaker handle is invertible allowing 180° installation.
9. Comes with a combination flush/surface mount cover.
10. Siemens circuit breakers are series rated for full protection and lower component cost.
11. Side hinged outdoor enclosure.
12. Trim mounting tabs free up both hands to install the trim.

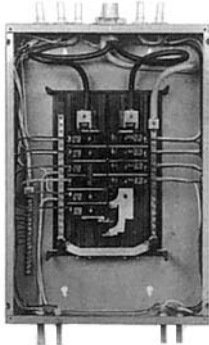
# SIEMENS LOADCENTERS



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## SIEMENS EQ & CONVERTABLE MAIN LUG LOAD CENTERS

12-16 CIRCUITS—1 PHASE, 125 AMPS—ALUMINUM BUS  
 NOTE: "CU" DESIGNATES COPPER BUS



Rated for 100,000A IR maximum systems. Trim fits both surface and flush mounting applications. Interiors offer removal in seconds. Single phase. One piece bus bar construction. Designed for use only with Siemens circuit breakers. Exclusive split neutral. Main lugs and neutral on same plate, same drive. Simple upper pan adjustment after trim is installed. UL Listed for 60/75° C conductors.

\*Easily converts to main breaker panel using appropriate kit.  
 See Page C-2 for Conversion Kits

Amps	Branch Circuits			Indoor Enclosure Type 1		Outdoor Enclosure Type 3R	
	Max. 1-Pole		QP Max. 2-Poles	ITE No.	Each	ITE No.	Each
	No. of Spaces	No. of Circuits					
60	2	4	1	--	--	W0204ML1060	\$39.07
125	2	4	1	E0204ML1125SCU	\$42.87	W0204ML1125CU	103.24
225	4	6	2	--	--	W0406ML1225CU	111.93
125	4	8	2	E0408ML1125S	28.58	W0408ML1125	35.40
125	8	16	4	E0816ML1125S	51.18	--	--

### 12-42 CIRCUITS, 125-225 AMPS\*

Amps	Branch Circuits			Indoor Enclosure Type 1 (Complete Assembly)		Outdoor Enclosure Type 3R (Complete Assembly)	
	Max. 1-Pole		Max. 2-Poles	ITE No.	Each	ITE No.	Each
	No. of Spaces	No. of Circuits					
1 PHASE—3 WIRE SN—120/240 VAC							
125	12	12	6	G1212L1125	\$56.01	--	--
125	12	24	6	--	--	W1224L1125CU	\$133.93
150	20	30	10	--	--	W2030L1150CU	210.04
200	30	40	14	--	--	W3040L1200CU	274.85

### 1 PHASE—3 WIRE SN—FULL SIZE BREAKERS ONLY

125	12	24	6	G1224L1125	57.83	--	--
125	16	24	8	G1624L1125	62.43	--	--
125	20	20	10	G2020L1125	88.17	--	--
200	30	30	14	G3030L1200	104.78	--	--
200	30	40	14	G3040L1200	139.87	--	--
200	40	40	20	G4040L1200	158.86	--	--

## SIEMENS EQ MAIN LUG LOAD CENTERS

3 PHASE—COPPER BUS

Rated for 100,000A IR maximum systems. Recommended for those applications where the environment may be severe or where a premium panel is desired.

### 3 PHASE—3 WIRE, 240 VAC OR 3 PHASE, 4 WIRE SN—120/240 OR 120/208 VAC

Amps	Branch Circuits			Indoor Enclosure Type 1 (Complete Assembly)		Outdoor Enclosure Type 3R (Complete Assembly)	
	Max. 1-Pole		Max. 2-Poles	ITE No.	Each	ITE No.	Each
	No. of Spaces	No. of Circuits					
125	12	24	6	G1224L3125CU*	\$137.59	W1224ML3125CU*	\$187.77
150	18	36	9	G1836L3150CU*	155.26	W1836ML3150CU*	241.95
200	30	42	14	G3042L3200CU*	221.61	W3042ML3200CU*	321.04
200	42	42	20	G4242L3200CU*	215.09	W4242ML3200CU*	434.37

\*Suitable for use as service entrance equipment when not more than six main disconnecting means are provided and when not used as a lighting and appliance branch circuit panelboard.

Suitable for use as service entrance equipment when a main breaker (100A max.) is back-fed in a branch position, and used with main breaker retainer clip.



## SIEMENS EQ CIRCUIT BREAKER ENCLOSURE LOAD CENTERS

Rated for 65,000A IR maximum systems. Suitable for use as service entrance equipment. UL Listed for 60/75° C conductors.

Breaker Used			Indoor Enclosure Type 1				Outdoor Enclosure Type 3R					
Frame Type	Amps	No. of Poles	ITE No.	Each	Dimensions, In.			ITE No.	Each	Dimensions, In.		
					H	W	D			H	W	D
1 PHASE, 3 WIRE SN—120/240, 240 VAC												
QP	15-125	1-2	E0204ML1125SCU	\$42.87	17-1/8	7-1/8	4-1/4	--	--	17-1/8	7-3/8	4-5/16
3 PHASE, 3 WIRE 240 VAC OR 3 PHASE, 4 WIRE SN—120/208 VAC												
QP	60-100	2-3	E0303ML3100S	103.24	17-1/8	7-1/8	4-1/4	W0303ML3100	\$136.11	17-1/8	7-3/8	4-5/16
QJ2	125-225	2-3	EB3225S	123.27	27	10-1/8	5-1/8	WB3225	250.65	27	10-1/8	5-9/16
	100	3						WB3100	136.11			

Circuit breakers not included.

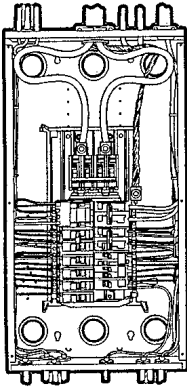




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# SIEMENS LOADCENTERS & BREAKERS

## SIEMENS EQ & CONVERTIBLE MAIN BREAKER ULTIMATE LOAD CENTERS



22,000A IR. Load centers with a single main breaker feature a combination trim boxed in one package. The trim fits both surface and flush mounting applications. Interiors offer removal in seconds. One piece bus bar construction. Designed for use only with Siemens circuit breakers. Simple upper pan adjustment after trim is installed. Exclusive split neutral. UL Listed as suitable for use as service entrance equipment. UL Listed for 60/75° C conductors. Standard factory installed 22kA IR main circuit breaker. Positive load side circuit breaker hook rail.

† Easily converts to main lug panel.  
 See accessories for appropriate kit.

### ACCESSORIES—CONVERSION KITS

ITE No.	Description	Each
MBK100A	Main Breaker Kit - 100 Amp.	\$52.27
MBK125A	Main Breaker Kit - 125 Amp.	107.26
MBK150A	Main Breaker Kit - 150 Amp.	133.24
MBK200A	Main Breaker Kit - 200 Amp.	187.93
MLK125	Main Lug Kit - 100-125 Amp.	9.56
MLK225	Main Lug Kit - 150-225 Amp.	10.12
MBR1	MB retaining kit for EQ loadcenters.	3.39
MBR2	MB retaining kit for "Ultimate" loadcenters.	7.44

Amps	Branch Circuits			Indoor Enclosure Type 1 (Complete Assembly)	
	Max. 1-Pole		Max. 2-Poles	ITE No.	Each
	No. of Spaces	No. of Circuits			

### 1 PHASE, 3 WIRE SN—FULL SIZE BREAKERS ONLY† 120/240 VAC—ALUMINUM BUS

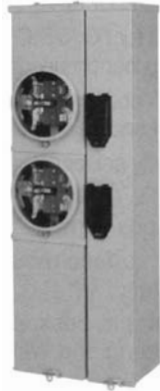
100	12	24	6	G1224B1100	\$89.19
100	16	24	8	G1624B1100	74.17
100	20	20	10	G2020B1100	93.01
100	30	30	15	G3030B1100CU	113.22
200	20	40	10	G2040B1200	109.24
200	20	40	10	G2040B1200CU*	274.19
100	20	20	10	G2020B1100CU*	173.73
200	30	40	14	G3040B1200	138.55
200	40	40	20	G4040B1200	158.86
200	40	40	20	G4040B1200CU*	167.23
200	4	4	2	W0404MB1200CT**	126.61
200	30	40	15	W3040MB1200CU**	369.17

### 3 PHASE, 3 WIRE, 240 VAC OR 3 PHASE, 4 WIRE SN 120/240 OR 120/208 VAC—COPPER BUS

100	30	30	15	G3030MB3100CU	454.98
200	42	42	20	G4242MB3200CU	671.91

\* Copper bus. \*\* NEMA 3R.

## SIEMENS UNI-PAK METER CENTERS INDOOR-OUTDOOR CONSTRUCTION



UNI-PAK HUBS

ITE No.	Size	Each
HV300	3"	\$93.48
HV350	3-1/2"	140.73
HV400	4"	185.93

Ringless meter construction. Horn by-pass factory installed. For small apartment buildings, small professional and commercial buildings. Completely self-contained meter centers. Compact, pre-bussed, easy to handle, hang and wire. Top or bottom feed.

### 1 PHASE, 3 WIRE SN, RINGLESS TYPE, UNI-PAK METER CENTER

Continuous Duty Amps Per Position	Bus Amperage	Meter Position Per Pak	ITE No.	Breaker Provision	Dimensions HxWxD	Horn Bypass Kit	Line Lugs Wire Range	Each
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### 1 PHASE—5-JAW SOCKETS—120/240VAC MAX.

125	200	2	SP2211RJB	QP, QPH, HQP	37.5x13.5x6	Installed	#6-300 kcmil	\$388.30
125	400	4	SP4411RJB		37.5x25.5x7.5	Installed	1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU	680.07
200	400	2	SP4212RJB	QP, QPH, HQP, QPP, HQPH, HQPP	31.5x29.5x7.5	Installed	1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU	527.52
200	400	4	SP4412RJB		47.44x29.5x7.5	Installed	1/0-750 MCM CU-AL or (2) 1/0-250 AL or (2) 1/0-3/0 CU	1003.92

## SIEMENS SPA PANELS



Spa panels are ideal for outdoor applications requiring the use of ground fault protection such as hot tubs. A factory GFCI breaker is provided, along with 2 extra circuits.

Main Amp	No. of Spaces	Maximum Circuits	ITE No.	Dimensions HxWxD	Amps	Each
125	2	4	W04081125SPA50	12-1/4x16-1/8x4-1/4	50	\$162.32
125	2	4	W04081125SPA60	12-1/4x16-1/8x4-1/4	60	170.21

# SIEMENS BREAKERS



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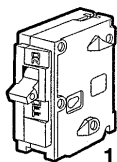
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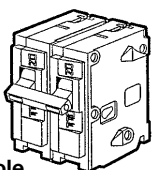
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## SIEMENS CIRCUIT BREAKERS

EQ 125A FRAME



1 Pole



2 Pole

QP PLUG-IN (10,000A IR)—NON-INTERCHANGEABLE TRIP

ITE No.	Amps	Standard Package	Each
---------	------	------------------	------

### 1 POLE—120/240 VAC

Q115	15	12	\$4.15
Q120	20	12	4.15
Q125	25	12	4.15
Q130	30	12	4.15
Q135	35	12	4.15
Q140	40	12	4.15
Q150	50	12	4.15

### 2 POLE—120/240 VAC—COMMON TRIP

Q215	15	6	8.96
Q220	20	6	8.96
Q225	25	6	8.96
Q230	30	6	8.96
Q235	35	6	8.96
Q240	40	6	8.96
Q245	45	6	15.77
Q250	50	6	8.96
Q260	60	6	8.96
Q270	70	6	32.63
Q280	80	6	58.42
Q290	90	6	58.42
Q2100	100	6	29.70
Q2125	125	6	37.00
Q2200B*	200	6	103.74

### 3 POLE—240 VAC—COMMON TRIP

Q315	15	4	59.66
Q320	20	4	59.66
Q330	30	4	59.66
Q340	40	4	59.66
Q350	50	4	59.66
Q360	60	4	59.66
Q370	70	4	74.58
Q3100	100	4	89.49

\*Replacement main breaker for loadcenter.

## SIEMENS DUPLEX-QUADPLEX CIRCUIT BREAKERS



Duplex breaker requires one pole space. Quadplex breaker requires two pole spaces.

Dual

ITE No.	Type	Amps	Std. Pkg.	Each
Q1515	Duplex, 1-pole	15-15	12	\$8.39
Q1520	Duplex, 1-pole	15-20	12	16.37
Q2020	Duplex, 1-pole	20-20	12	8.39
Q2030	Duplex, 1-pole	20-30	12	16.25
Q1515NC*	Duplex, 1-pole	15-15	12	26.94
Q2020NC*	Duplex, 1-pole	20-20	12	26.94
Q23030CT2	Quad, 2-pole	30-30	6	40.26
Q23050CT2	Quad, 2-pole	30-50	6	40.26

\* Old style, no rejection tab, replacement breaker.

## SIEMENS GFCI CIRCUIT BREAKERS

EQ 125A FRAME GFCI—PERSONNEL PROTECTION (CLASS A)



2 Pole



1 Pole

ITE No.	Amps	Standard Package	Each
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### 1 POLE—120 VAC—PLUG-IN—TYPE QPF

QF115	15	1	\$44.61
QF120	20	1	44.61
QF130	30	1	59.55

### 2 POLE—120/240 VAC—PLUG-IN—TYPE QPF

QF220	20	1	113.96
QF230	30	1	162.43
QF240	40	1	113.96
QF250	50	1	113.96

## SIEMENS ARC-FAULT CIRCUIT INTERRUPTER CIRCUIT BREAKERS



Provides overload and short circuit protection, and arc-fault detection. UL Listed. The 1999 N.E.C., Section 210-12, requires all 15 and 20 amp branch circuit receptacle outlets installed in dwelling unit bedrooms to be protected by arc-fault circuit interrupters.

ITE No.	Amps	Standard Package	Each
Q115AF	15	1	\$44.61
Q120AF	20	1	44.61

## SIEMENS SWITCHING NEUTRAL BREAKERS

2 WIRE COMMON TRIP—120VAC



ITE No.	Description	Each
QG215	15 amp.	\$34.26
QG220	20 amp.	34.26



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## SIEMENS BREAKERS & ACCESSORIES

### SIEMENS SURGE ARRESTER CIRCUIT BREAKERS

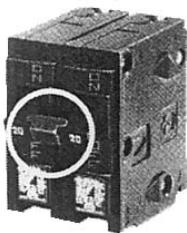


Compact design incorporating (2) 15A or 20A 1-pole circuit breakers in series with surge arrester module. Plug-in load center mounting is easy to install. One device will protect the entire electrical system. Can withstand high impulse currents (40,000A per phase). Illuminated LED's indicate surge protection functioning. Perfect for retrofit — replaces (2) 1" breakers without losing any circuits.

#### TYPE QP—1-POLE—120/240 VAC

ITE No.	Amps	Standard Package	Each
QSA1515	(2) 15	1	\$166.78
QSA2020	(2) 20	1	166.78

### SIEMENS CIRCUIT BREAKER AND PANEL ACCESSORIES



ECQTH3



ECQL1



ECGB14



ECQF3

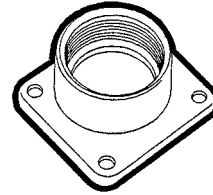


ECLK2150

ITE No.	Description	Std. Pkg.	Each
ECGB10	Ground bar kit, 10 pos., Cu/Al wire range #4 - 14.	1	\$11.56
ECGB14	Ground bar kit, 14 pos., Cu/Al wire range #4 - 14.	1	13.10
ECGB20	Ground bar kit, 20 pos., Cu/Al wire range #4 - 14.	1	14.65
ECLK2150*	Lug kit, 2 pole, wire range #14 - 2/0 Cu. #8 - 3/0 Al., subfeed or feedthru applications.	1	54.44
ECMBR1	Main breaker retainer - EQ Loadcenters.	1	3.59
ECMBR2	Main breaker retainer - Ultimate Loadcenters.	1	7.90
ECQF3	Filler plate.	1	1.55
ECQLD3	Handle blocking device.	1	2.86
ECQL1	Handle blocking (lock Off or On) device 1, 2 or 3 pole.	25	2.80
ECQTH3	QP 2 pole tie handle.	50	1.15

\*Two opposing breaker positions are unusable.

### SIEMENS CONDUIT HUBS FOR RAINPROOF ENCLOSURES



ITE No.	Conduit Size, In.	For Use With	Each
ECHS075	3/4	All load centers.	\$22.83
ECHS100	1		22.83
ECHS125	1-1/4		22.83
ECHS150	1-1/2		22.83
ECHS200	2		39.71

### SIEMENS MOLDED CASE CIRCUIT BREAKERS QD SERIES REPLACEMENT CIRCUIT BREAKERS

Molded case, 60A fame plug-in circuit breakers. Designed for use in Square D "QO" Loadcenters.

ITE No.	Amps	Standard Package	Each
<b>1 POLE—120/240V AC</b>			
D115	15	16	\$13.91
D120	20	16	13.91
D130	30	16	13.91
<b>2 POLE—120/240V AC—COMMON TRIP</b>			
D220	20	8	24.67
D230	30	8	24.67
D240	40	8	24.67
D250	50	8	24.67
D260	60	8	24.67

### SIEMENS MOLDED CASE CIRCUIT BREAKERS PUSHMATIC CIRCUIT BREAKERS

ITE No.	Description	Standard Package	Each
P115	1-pole, 15 amp.	1	\$30.21
P120	1-pole, 20 amp.	1	30.21
P130	1-pole, 30 amp.	1	30.21
P1515	Twin, 15 amp.	1	61.03
P2020	Twin, 20 amp.	1	61.03
P3030	Twin, 30 amp.	1	61.03
P220	2-pole, 20 amp.	1	71.30
P230	2-pole, 30 amp.	1	71.30
P240	2-pole, 40 amp.	1	71.30
P250	2-pole, 50 amp.	1	71.30
P260	2-pole, 60 amp.	1	71.30
P270	2-pole, 70 amp.	1	142.00
P2100	2-pole, 100 amp.	1	196.38

# SIEMENS SAFETY SWITCHES



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## SIEMENS GENERAL DUTY ENCLOSED SWITCHES CLASS R FUSES FOR GENERAL DUTY



System	Amps	Indoor Type 1		Outdoor Type 3R		Horsepower Ratings, 240 VAC						250 VDC, Std.
		ITE No.	Each	ITE No.	Each	1 Phase, 2 Wire		2 Phase, 4 Wire		3 Phase, 3 Wire		
						Std.	Max.	Std.	Max.	Std.	Max.	

### 240 VOLT FUSIBLE 2 POLE, 2 FUSE AND SOLID NEUTRAL\*—240 VAC/250 VAC

	30	GF221N ①	\$31.00	GF221NR ①	\$51.78	1-1/2	3	--	--	3	7-1/2	5
	60	GF222N ①	55.40	GF222NR ①	85.26	3	10	--	--	7-1/2	15	10
	100	GF223N ①	111.52	GF223NR ①	125.73	7-1/2	15	--	--	15	30	20
	200	GF224N ①②	231.47	GF224NR ①②	328.53	15	--	--	--	25	60	40
	400	GF225N	708.13	GF225NR	957.90	--	--	--	--	50	125	50

### 240 VOLT FUSIBLE 3 POLE, 3 FUSE AND SOLID NEUTRAL\*\*—240 VAC

	30	GF321N	51.78	GF321NR	77.07	1-1/2	3	--	--	3	7-1/2	--
	60	GF322N	85.26	GF322NR	115.85	3	10	--	--	7-1/2	15	--
	100	GF323N	148.37	GF323NR	214.36	7-1/2	15	--	--	15	30	--
	200	GF324N	328.53	GF324NR	388.99	15	--	--	--	25	60	--
	400	GF325N	839.15	GF325NR	1009.68	--	--	--	--	50	125	--
	600	GF326N	1563.42	GF326NR	2094.75	--	--	--	--	75	200	--

### 240 VOLT NON-FUSIBLE 2 POLE OR 3 POLE—240 VAC/250 VDC

	30	GNF321	42.39	GNF321R	77.07	--	3	--	--	7-1/2	--	5
	60	GNF322	53.47	GNF322R	118.98	--	10	--	--	15	--	10
	100	GNF323	125.73	GNF323R	214.36	--	15	--	--	30	--	20
	200	GNF324	226.41	GNF324R	384.17	--	15	--	--	60	--	40
	400	GNF325	580.95	--	--	--	15	--	--	125	--	50

NOTE: For 3 pole, 3 fuse, no neutral application, use 3 pole, 3 fuse, solid neutral switches.

\*Suitable for 3 pole motor loads.

\*\*Use 3 pole, 3 fuse and solid neutral for service entrance applications.

① These switches are UL Listed for application on grounded B systems.

② Limited to 50kA when using T-fuses.

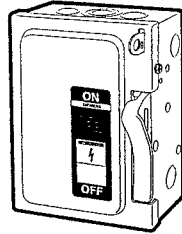




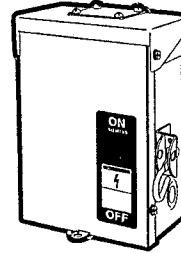
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# SIEMENS SAFETY SWITCHES

## SIEMENS HEAVY DUTY SINGLE THROW SAFETY SWITCHES



Type 1



Type 3R

System	Amps	Horsepower Ratings												250 VDC, Std.
		Indoor Type 1		Outdoor Type 3R		480 VAC				600 VAC				
		ITE No.	Each	ITE No.	Each	1 Phase, 2 Wire		3 Phase, 3 Wire		1 Phase, 2 Wire		3 Phase, 3 Wire		
						Std.	Max.	Std.	Max.	Std.	Max.	Std.	Max.	

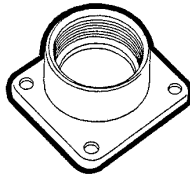
### 600 VOLT FUSIBLE 3 POLE, 3 FUSE (SOLID NEUTRAL)—480 VAC/600 VAC/250 VDC

OR	Amps	ITE No.	Each	ITE No.	Each	3	7-1/2	5	15	3	10	7-1/2	20	5
	30	HF361	\$145.00	HF361R	\$251.22	3	7-1/2	5	15	3	10	7-1/2	20	5
	60	HF362	172.70	HF362R	294.57	5	20	15	30	10	25	15	50	10
	100	HF363	332.14	HF363R	456.43	10	30	25	60	15	40	30	75	20
	200	HF364	467.27	HF364R	624.07	25	50	50	125	30	50	60	150	40
	400	HF365	1250.54	HF365R	1507.06	--	--	100	250	--	--	125	350	50
	600	--	--	HF366R	2987.62	--	--	150	400	--	--	200	500	50
	800	--	--	HF367R	4589.33	--	--	200	500	--	--	250	500	50

### 600 VOLT NON-FUSIBLE 2 POLE OR 3 POLE—480 VAC/600 VAC/250 VDC

	Amps	ITE No.	Each	ITE No.	Each	7-1/2	--	--	15	--	10	--	20	5
	30	HNF361	76.35	HNF361R	135.84	7-1/2	--	--	15	--	10	--	20	5
	60	HNF362	135.84	HNF362R	238.93	20	--	--	30	--	25	--	50	10
	100	HNF363	220.63	HNF363R	341.54	30	--	--	60	--	40	--	75	20
	200	HNF364	335.52	HNF364R	412.59	50	--	--	125	--	50	--	150	40

## SIEMENS SAFETY SWITCH HUBS



ITE No.	Hub Size, In.	Switches Rated	Std. Pkg.	Each
ECHA075	3/4	30A GD switches only.	1	\$21.22
ECHA100	1	30A GD switches only.	1	21.22
ECHS075	3/4	60-200A, GD	1	22.83
ECHS100	1	30-200A, HD	1	22.83
ECHS125	1-1/4		1	22.83
ECHS150	1-1/2		1	22.83
ECHS200	2		1	39.71
ECHV300	3	400-1200A	1	99.13
ECHV350	3-1/2		1	149.46
ECHV400	4		1	197.74

## SIEMENS AUXILIARY CONTACTS FOR HD SWITCHES

ITE No.	Switch Amp Rating	Contacts	Amp Rating 125V/250V	Std. Pkg.	Each
HA161234	30-200A	1 NO & 1 NC	10A/10A	1	\$152.88

## SIEMENS NEUTRAL KITS FOR HEAVY DUTY AND GENERAL SWITCHES

ITE No.	Ampere Rated	Volts Rated	Ground Lugs	Each
HN612	30HD/60GD	600	#14 - 2	\$62.24
HN623	60, 100HD/100GD	600	#14 - 1/0	119.04
HN64	200	600	#6 - 300MCM	119.04
HN656	400/600	600	#1/0 - 750MCM	279.17
HN678	800/1200	600		536.58

## SIEMENS EQUIPMENT GROUND KITS

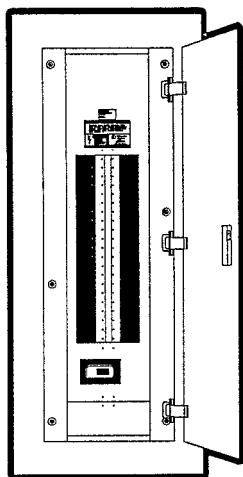
ITE No.	Switch Amp Rating	No of Terminals	AWG Range/ Terminal	Std. Pkg.	Each
GSGK60	30A GD	2	#14-8	1	\$15.41
HG61234	60-200 GD	2	#14-4	1	15.41
HG656	400-600	4	#6-250MCM	1	78.55

# SIEMENS SENTRON PANELBOARDS



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## SIEMENS TYPE P-1 UNASSEMBLED PANELBOARDS



Type P-1

Type P-1 field assembled lighting panelboards are completely convertible from main lug to main breaker. Order main lug kit or main breaker kit, interior, rough-in box, trim and branch breakers.

NOTE: Catalog Numbers ending in "A" designates aluminum bus.  
Catalog Numbers ending in "C" designates copper bus.

### BRANCH BREAKER SELECTION GUIDE TYPE S-1 PANELBOARDS

Panel	Voltage	Breaker Type
P-1	240	BL, BQD

Interiors Only - Less Branch Circuits				Enclosures			Fronts			Total Each
Mains	Max. No. of Poles	ITE No. (Interiors)	Each	Hgt. In.	Type 1 ITE No.	Each	Surface ITE No.	Flush ITE No.	Each	
<b>TYPE P1—CONVERTIBLE MAINS—1 PHASE, 3 WIRE—120/240V</b>										
250	18	P1A18MC250C	\$138.69	32	B32	\$21.24	S32B	F32B	\$45.79	\$205.72
250	30	P1A30MC250C	177.50	38	B38	21.24	S38B	F38B	45.79	244.53
250	42	P1A42MC250C	232.72	44	B44	21.24	S44B	F44B	45.79	299.75
400	42	P1A42MC400C	340.31	68	SBD68	13.07	24S68B	--	46.79	399.17
<b>TYPE P1—CONVERTIBLE MAINS—3 PHASE, 4 WIRE OR 3 PHASE, 3 WIRE—208Y/120V OR 240V</b>										
250	18	P1X18MC250C	139.25	32	B32	21.24	S32B	F32B	45.79	215.28
250	30	P1X30MC250A	177.88	38	B38	21.24	S38B	F38B	45.79	244.91
250	30	P1X30MC250C	197.10	38	B38	21.24	S38B	F38B	45.79	264.13
250	42	P1X42MC250A	230.45	44	B44	21.24	S44B	F44B	45.79	297.48
250	42	P1X42MC250C	253.44	44	B44	21.24	S44B	F44B	45.79	320.47
400	42	P1X42MC400A	316.38	68	B68	35.59	S68B	--	67.04	419.01
400	42	P1X42MC400C	365.37	68	B68	35.59	S68B	--	67.04	468.00
<b>TYPE P1—CONVERTIBLE MAINS—3 PHASE, 4 WIRE—480Y/277V</b>										
250	18	P1E18MC250C	139.25	32	B32	21.24	S32B	F32B	45.79	206.28
250	30	P1E30MC250C	197.10	38	B38	21.24	S38B	F38B	45.79	264.13
250	42	P1E42MC250C	253.44	44	B44	21.24	S44B	F44B	45.79	320.47
400	42	P1E42MC400A	316.38	68	B68	35.59	S68B	--	67.04	419.01
400	42	P1E42MC400C	351.62	68	B68	35.59	S68B	--	67.04	454.25

Branch circuit breakers not included. Interiors require a main lug kit or main breaker.

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you instant pricing, shop drawings, and  
an itemized bill of materials. Let us put  
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# SIEMENS PANELBOARD ACCESSORIES

## SIEMENS MAIN BREAKER KITS

Kit includes breaker, mounting kit and lugs.

ITE No.	Amps	Breaker Type	Each
<b>MAIN OR SUBFEED—WITH BREAKER</b>			
MBKED3100	100	3P-ED43	\$225.84
MBKED3125	125	3P-ED43	386.42
MBKFD3150	150	3P-FD63	398.81
MBKFD3175	175	3P-FD63	376.30
MBKFD3200	200	3P-FD63	398.81
MBKFD3225	225	3P-FD63	398.81
MBKFD3250	250	3P-FD63	557.43
MBKQJ1200	200	2P-QJ22	148.80
MBKQJ3125	125	3P-QJ23	333.25
MBKQJ3150	150	3P-QJ23	333.25
MBKQJ3175	175	3P-QJ23	333.25
MBKQJ3200	200	3P-QJ23	333.25
MBKQJ3225	225	3P-QJ23	333.25
MBKJD1400	400	2P-JXD	547.91
MBKJD3400	400	3P-JXD	722.09

Kit includes mounting kit and lugs.

ITE No.	Amps	Breaker Types	Each
<b>MAIN OR SUBFEED—WITHOUT BREAKER</b>			
MBKBC3	100	BQD - 3Ø	\$117.02
MBKBL1	100	BL, BLH, HBL - 1Ø	41.46
MBKBL3	100	BL, BLH, HBL - 3Ø	117.02

## ACCESSORIES FOR TYPE P-1 PANELBOARDS

Description	ITE No.	Each
AL ground buss 44 connections.	ECGK	\$4.25
Insulated AL ground bus.	IGK	11.31
Filler plate.	QF3	1.43
Number strips, 1-42	NBK3	1.77
Number strips, 43-84	NBK4	1.88
Number strips, 85-126	NBK5	1.88
Back mounting plate - 3 pole	BR3	12.04

## TYPE P-1 LUG KITS—MAIN OR FEED THROUGH

Amps	Poles	Material	Wire Range	ITE No.	Each
250	2	AL	6 - 350MCM	MLKA1	\$41.46
250	3	AL	6 - 350MCM	MLKA3	52.38
400	2	AL	3/0 - 500MCM	4MLKA1	157.91
400	3	AL	3/0 - 500MCM	4MLKA3	175.62

## TYPE P-1 200% NEUTRAL KITS

Circuits	Amps	ITE No.	Each
30	250	2NLK30	\$65.95
42	250	2NLK42	70.10
42	400/600	42NLK42	97.23

## SIEMENS TYPE P-4 AND P-5 PANELBOARD ACCESSORIES

### TYPE P-4 CIRCUIT BREAKER STRAP KITS (Less Breaker)

Fits 600V, 600A main/1200A M.L.O. power panels. Boxes: 32" wide, 10" deep. NEMA 1.

ITE No.	Breaker Type	Mounting Type	Unit Height, In.	Each
SE6	ED	Twin	3.75	\$517.10
SQJ	QJ	Twin	5	930.02
SF6	FD6	Twin	5	930.02
SJ1	JXD2, JXD6	Single	8.75	1291.80

### TYPE P-5 CIRCUIT BREAKER STRAP KITS (Less Breaker)

Fits 600V, 1200A main/1200A M.L.O. power panels. Boxes: 38" wide, 12.75" deep. NEMA 1.

Also fits types FC1, FC11, SB1, and SB2 switch boards.

ITE No.	Breaker Type	Mounting Type	Unit Height, In.	Each
SE6D	ED	Twin	3.75	\$839.15
SQJD	QJ	Twin	5	930.02
SF6D	FD6	Twin	5	930.02
SJ2D	JXD2, JXD6	Single	8.75	1426.42

## ROUGH-IN BOXES FOR PANELBOARDS

Rough-in boxes may be ordered separately to begin a job. The following boxes are available from stock and will accommodate panelboards from 100A to 1200A. Consult your Sales Representative for proper selection.

ITE No.	Width, In.	Depth, In.	Height, In.	Each
B32	20	5.75	32	\$21.24
B38	20	5.75	38	21.24
B44	20	5.75	44	21.24
B68	20	5.75	68	35.59
PB75	32	10	75	149.99
PB90	32	10	90	100.00
PB860	38	12.75	60	100.00
PB875	38	12.75	75	100.00
PB890	38	12.75	90	100.00

## NEMA 3R/12 ENCLOSURES

ITE No.	Height, In.	Each
WP32	32	\$295.00
WP38	38	295.00
WP44	44	295.00

## CIRCUIT BREAKER ENCLOSURE

### NEUTRAL INCLUDED—NEMA 1—SURFACE COVER

Enclosure will accept shunt trip and other internal accessories except GFP.

### SURFACE OR FLUSH COVER

ITE No.	Breaker Type	No. of Poles	Max. Current Rating	Each
E2N1S*	EDZ, ED4, ED6, HED4	2-3	100	\$101.48
E2N1F**	EDZ, ED4, ED6, HED4	2-3	100	101.48

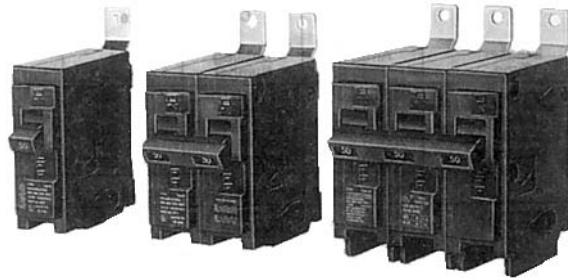
\* Surface cover. \*\* Flush cover.

# SIEMENS CIRCUIT BREAKERS



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## SIEMENS MOLDED CASE CIRCUIT BREAKERS



### BL SERIES LOW TAB BOLT-ON—10,000A IR

ITE No.	Amps	Standard Package	Each
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#### 1 POLE—120/240V AC

B115	15	12	\$16.25
B120	20	12	16.25
B125	25	12	16.25
B130	30	12	16.25
B135	35	12	16.25
B140	40	12	16.25
B145	45	12	16.25
B150	50	12	16.25

#### 2 POLE—120/240V AC—COMMON TRIP

B215	15	6	37.32
B220	20	6	37.32
B225	25	6	37.32
B230	30	6	37.32
B235	35	6	37.32
B240	40	6	37.32
B245	45	6	37.32
B250	50	6	37.32
B260	60	6	37.32
B270	70	6	72.44
B280	80	6	98.78
B290	90	6	98.78
B2100	100	6	98.78

#### 3 POLE—240V AC—COMMON TRIP

B315	15	4	123.81
B320	20	4	123.81
B325	25	4	123.81
B330	30	4	123.81
B335	35	4	123.81
B340	40	4	123.81
B345	45	4	123.81
B350	50	4	123.81
B360	60	4	123.81
B370	70	4	152.35
B380	80	4	171.67
B390	90	4	171.67
B3100	100	4	171.67

#### 1 POLE—GFCI

BF120	20	1	160.25
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#### 2 POLE—GFCI

BF220	20	1	190.98
BF230	30	1	190.98

#### 1 POLE—SHUNT TRIP

B12000S01	20	1	94.83
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#### 2 POLE—SHUNT TRIP

B22000S01	20	1	115.47
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#### SWITCHING NEUTRAL BREAKER—TWO WIRE COMMON TRIP

ITE No.	Amps	Std. Pkg.	Each
BG220	20	1	\$57.08

### BLH SERIES LOW TAB BOLT-ON—22,000A IR

ITE No.	Amps	Standard Package	Each
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#### 1 POLE—120/240V AC

B115H	15	12	\$32.04
B120H	20	12	32.04
B130H	30	12	36.00

#### 2 POLE—120/240V AC—COMMON TRIP

B220H	20	6	72.44
B230H	30	6	72.44
B240H	40	6	72.44
B250H	50	6	72.44
B260H	60	6	72.44
B2100H	100	6	159.37

#### 3 POLE—240V AC—COMMON TRIP

B320H	20	4	186.15
B325H	25	4	186.15
B330H	30	4	186.15
B335H	35	4	186.15
B340H	40	4	186.15
B345H	45	4	186.15
B350H	50	4	186.15
B360H	60	4	186.15
B370H	70	4	226.11
B380H	80	4	265.18
B3100H	100	4	265.18

### EQ-BQ REPLACEMENT CIRCUIT BREAKERS—BOLT-ON

ITE No.	Amps	Standard Package	Each
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#### 1 POLE—120/240V AC

BQ1B015	15	6	\$26.83
BQ1B020	20	6	26.83
BQ1B030	25	6	26.83

#### 2 POLE—120/240V AC—COMMON TRIP

BQ2B015	15	3	61.21
BQ2B020	20	3	61.21
BQ2B030	30	3	61.21
BQ2B040	40	3	61.21
BQ2B050	50	3	61.21
BQ2B060	60	3	61.21
BQ2B100	100	3	162.46

#### 3 POLE—240V AC—COMMON TRIP

BQ3B015	15	2	203.27
BQ3B020	20	2	203.27
BQ3B030	30	2	203.27
BQ3B040	40	2	203.27
BQ3B050	50	2	203.27
BQ3B060	60	2	203.27
BQ3B100	100	2	281.10



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# SIEMENS CIRCUIT BREAKERS

## SIEMENS MOLDED CASE CIRCUIT BREAKERS (CONT'D.)

### BQD SERIES BOLT-ON—277/480V AC—14,000A IR

ITE No.	Amps	Standard Package	Each
<b>1 POLE—277V AC, 125V DC</b>			
BQD115	15	12	\$62.69
BQD120	20	12	62.69
BQD130	25	12	62.69
<b>*2 POLE—277V/480Y—125/250V DC</b>			
BQD215	15	6	141.06
BQD220	20	6	141.06
BQD225	25	6	141.06
BQD230	30	6	141.06
BQD235	35	6	141.06
BQD240	40	6	141.06
BQD245	45	6	141.06
BQD250	50	6	141.06
BQD260	60	6	141.06
BQD2100	100	6	287.20
<b>*3 POLE—277V/480Y</b>			
BQD315	15	4	250.78
BQD320	20	4	250.78
BQD325	25	4	250.78
BQD330	30	4	250.78
BQD335	35	4	250.78
BQD340	40	4	250.78
BQD345	45	4	250.78
BQD350	50	4	250.78
BQD360	60	4	250.78
BQD370	70	4	341.59
BQD390	90	4	341.59
BQD3100	100	4	341.59

\*Not suitable for 3 phase delta 480V grounded "B" phase.

NOTE: "BQCH" is the old style for the "BQD". They are interchangeable.

### BQD INTERNAL SHUNT TRIP MODULE

Can be added to any BQD frame breaker. Adds one pole space.

ITE No.	Control Voltage	Each
BQDST120	120 VAC	\$377.78

### ED SERIES BOLT-ON—18,000A IR

ITE No.	Amps	Standard Package	Each
<b>1 POLE—120/277V AC</b>			
ED41B015	15	1	\$136.02
ED41B020	20	1	136.02
<b>*3 POLE—240/480V</b>			
ED43B015	15	1	547.84
ED43B020	20	1	547.84
ED43B030	30	1	547.84
ED43B040	40	1	547.84
ED43B050	50	1	547.84
ED43B060	60	1	547.84
ED43B070	70	1	643.81
ED43B100	100	1	643.81
ED43B125	125	1	1277.04
<b>3 POLE—600V</b>			
ED63B020	20	1	623.41
ED63B030	30	1	623.41
ED63B040	40	1	623.41
ED63B050	50	1	623.41
ED63B060	60	1	623.41
ED63B070	70	1	779.07
ED63B100	100	1	779.07

\*Suitable for 3 phase delta 480V grounded "B" phase.

### ED INTERNAL SHUNT TRIP MODULE

Can be added to any ED frame breaker. Adds one pole space.

ITE No.	Control Voltage	Each
SO1ED60	120 VAC	\$509.30

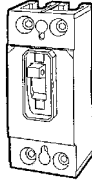
# SIEMENS CIRCUIT BREAKERS



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## SIEMENS MOLDED CASE CIRCUIT BREAKERS (CONT'D.)

### 10,000A IR—QJ 225A FRAME—TYPE QJ2



ITE No.	Amps	Standard Package	Each
<b>2-POLE—240 VAC</b>			
QJ22B125	125	10	\$287.09
QJ22B150	150	10	202.65
QJ22B175	175	10	287.09
QJ22B200	200	10	202.65
QJ22B225	225	10	202.65

ITE No.	Amps	Standard Package	Each
<b>3-POLE—240 VAC</b>			
QJ23B125	125	10	752.74
QJ23B150	150	10	752.74
QJ23B175	175	10	752.74
QJ23B200	200	10	752.74
QJ23B225	225	10	752.74

### FD SERIES BOLT-ON—3 POLE

ITE No.	Amps	Standard Package	Each
<b>35,000A IC</b>			
FXD63B125	125	1	\$1823.37
FXD63B200	200	1	1823.37
FXD63B225	225	1	1823.37

ITE No.	Amps	Standard Package	Each
<b>65,000A IC</b>			
JXD63B400	400	1	3015.02
LXD63B600	600	1	3435.67

### AL-CU CIRCUIT BREAKER LUGS

ITE No.	Breaker Types	Amps	Wire Range	Each
TC1Q1	BQ, BQH, BL, BLH	15-40	14-6CU 12-6AL	\$2.11
TA1Q1	BQ, BQH, BL, BLK	50-100	8-1CU 6-1/OAL	2.11
TA1FD350	FXD, FD, HFD, CFD	70-250	6-305CU 4-350AL	17.76
TA2J6500	JXD, LXD, LC	200-600	3/0-500CU 4/0-500AL	25.31

### NEG SERIES BOLT-ON—35,000-100,000 AIR\*

ITE No.	Amps	Standard Package	Each
<b>1 POLE—120/277V AC</b>			
NEB1B015B	15	12	\$225.94
NEB1B020B	20	12	225.94

ITE No.	Amps	Standard Package	Each
<b>3 POLE—240/480V AC</b>			
NEB3B015B	15	1	707.28
NEB3B020B	20	1	707.28
NEB3B030B	30	1	707.28
NEB3B040B	40	1	707.28
NEB3B050B	50	1	707.28
NEB3B060B	60	1	707.28
NEB3B070B	70	1	804.01
NEB3B080B	80	1	804.01
NEB3B090B	90	1	804.01
NEB3B100B	100	1	804.01
NEB3B110B	110	1	1773.50
NEB3B125B	125	1	1773.50

*AIR RATING:			
120V	240V	277V	480V
100,000	85,000	35,000	35,000

### NGB SERIES BOLT-ON 25,000-100,000 AIR\*

NOTE: NGB frame breakers are used in factory assembled panelboards; not to be used in field assembled panelboards.

ITE No.	Amps	Standard Package	Each
<b>1 POLE—120/277V AC</b>			
NGB1B015B	15	12	\$122.41
NGB1B020B	20	12	122.41

ITE No.	Amps	Standard Package	Each
<b>3 POLE—240/480V AC</b>			
NGB3B015B	15	1	502.50
NGB3B020B	20	1	502.50
NGB3B030B	30	1	502.50
NGB3B040B	40	1	502.50
NGB3B050B	50	1	502.50
NGB3B060B	60	1	502.50
NGB3B070B	70	1	590.91
NGB3B080B	80	1	590.91
NGB3B090B	90	1	590.91
NGB3B100B	100	1	590.91
NGB3B110B	110	1	1292.15
NGB3B125B	125	1	1292.15

*AIR RATING:				
120V	120/240V	240V	277V	480/277V
100,000	100,000	100,000	25,000	25,000

### INTERNAL SHUNT TRIP MODULES

Can be added to designated breaker. Adds one pole space.

ITE No.	Control Voltage	Standard Package	Each
CQDST120*	120 V AC	1	\$509.30
STRER240**	110-240 V AC	1	509.30

\* Shunt trip module fits NGB, NGG, QCD, CQD6 Frame Breakers.

\*\* Shunt trip module fits NEG, HEB, NEB, HEG Frame Breakers.



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## SIEMENS MOTOR CONTROL

# ESP100...For Advanced, Cost Saving Control.

The First Major Technical Advancement in NEMA Rated Motor Starters in More Than 20 Years. ESP100 Combines the Familiar, Rugged Characteristics of a Proven NEMA Rated Contactor With a No Nonsense Solid State Electronic Overload.



**Phase Loss Protection.** Trips within three seconds on loss of phase.

**No Heater Coils!** Eliminates the cost of stocking, inspecting, sizing and installing heaters.

**Ambient Insensitive.** No more heat related nuisance trips. The overload is unaffected by temperatures ranging from -22° F to +159° F (-3° C to +70° C).

**Energy Savings.** The energy consumed in using heater elements is eliminated—forever.

**Self-Protection Against Short Circuit Damage.** Solid-state overload design is fully isolated and protected against any overcurrent damage.

**+2% Repeat Trip Accuracy.** Electronic precision replaces the mechanical approximation and variability of starters with thermal overload designs.

**UL Listed and CSA Certified.** Field proven over three years in a broad range of industries.

**No Extra Cost.** ESP100 is priced comparably to conventional starters with heaters.

## NOW AVAILABLE!

ESP100 Solid State Overloads Are Now Available Separately For Universal Starter Applications.

For The Price Of The Overload, You Can Upgrade Your Existing Starters And Enjoy ESP100 Advanced, Cost Saving Control.

**CALL FOR DETAILS.**



# ESP100 MOTOR STARTERS



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## SIEMENS 3-PHASE MAGNETIC STARTERS FULL VOLTAGE—NON-REVERSING



Open Type



NEMA 1,  
General Purpose

### NEMA STYLE WITH SOLID STATE OVERLOAD AND PHASE LOSS PROTECTION




NEMA Size	Max. H.P.			*Amp Range Solid State Overload	Magnetic Holding Coil Voltage (60 Hz.)	Open Type 3 Pole		NEMA 1 General Purpose	
	Motor Range	1 Ø	3 Ø			FUR No.	Each	FUR No.	Each
0	115	1	--	9 - 18	110-120/220-240 200-208 220-240/440-480	14CSE32AA	\$370.94	14CSE32BA	\$389.75
	200	--	3			14CSE32AD	370.94	14CSE32BD	389.75
	230	2	3			14CSE32AC	370.94	14CSE32BC	389.75
	460	--	5						
1	115	2	--	13 - 27	110-120/220-240 200-208 220-240/440-480	14DSF32AA	419.00	14DSF32BA	439.90
	200	--	7-1/2			14DSF32AD	419.00	14DSF32BD	439.90
	230	3	7-1/2			14DSF32AC	419.00	14DSF32BC	439.90
	460	--	10						
2	115	3	--	22 - 45	110-120/220-240 200-208 220-240/440-480	14FSH32AA	728.30	14FSH32BA	824.43
	200	--	10			14FSH32AD	728.30	14FSH32BD	824.43
	230	7-1/2	15			14FSH32AC	728.30	14FSH32BC	824.43
	460	--	25						
3	115	7-1/2	--	45 - 90	110-120/220-240 200-208 220-240/440-480	14HSK32AA	1151.48	14HSK32BA	1343.74
	200	--	25			14HSK32AD	1151.48	14HSK32BD	1343.74
	230	15	30			14HSK32AC	1151.48	14HSK32BC	1343.74
	460	--	50						
4	115	--	--	67 - 135	110-120/220-240 200-208 220-240/440-480	14JTM32AA	2576.72	14JTM32BA	2981.10
	200	--	40			14JTM32AD	2576.72	14JTM32BD	2981.10
	230	--	50			14JTM32AC	2576.72	14JTM32BC	2981.10
	460	--	100						

\*The ampere range of the solid state overload relay can be modified for lower settings by looping the motor lead wires through the block.

### SIEMENS 3R/12 ENCLOSURES FOR ESP 100 STARTERS

FUR No.	Size	Standard Package	Each
49EB14ED130806R	0-1	1	\$190.95
49EB14GD160907R	2	1	301.71

### SIEMENS FIELD MODIFICATION KITS FOR ESP100 MOTOR STARTERS

Description	Controller Size	Enclosure	FUR No.	Each
 Push Button (Start-Stop)	00 - 4 00 - 6	1 3, 4, 12	49SBPB5 49SAP05	\$84.82 84.82
 Selector Switch (Hand-Off-Auto)	00 - 4 00 - 6	1 3, 4, 12	49SBSB1 49SAS01	84.82 84.82
 Auxiliary Contact	00 - 4 00 - 4	N.O. N.C.	49AB10 49AB01	63.91 63.91





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# COMBINATION STARTERS & REVERSING STARTERS



## 3-PHASE COMBINATION MAGNETIC STARTERS NEMA STYLE WITH SOLID STATE OVERLOAD AND PHASE LOSS PROTECTION

### NON-FUSIBLE DISCONNECT

NEMA Size	Max. H.P.				Overload Amp Range	Disc Amp Rating	NEMA 1 Enclosure	
	200 Volts	230 Volts	460 Volts	575 Volts			FUR No.	Each
0	3	3	--	--	9-18	30	17CSE92B*	\$920.56
1	--	--	10	10	9-18	30	17DSE92B*	967.58
	7-1/2	7-1/2	--	--	13-27	60	17DSF92B*	967.58
2	10	15	25	25	22-45	60	17FSH92B*	1506.75

\* Replace the (\*) in the catalog number with Letter from COIL TABLE below.

### FIELD MODIFICATION KITS FOR COMBINATION STARTERS

#### FIELD MODIFICATION KITS TO CONVERT ABOVE TO FUSIBLE

Fuse Clip Ratings	Description	FUR No.	Each
30A-600V	Disc. Switch-base.	HFB612	\$69.60
	Fuse clip kit.	HBB612	49.06
	Class R clips.	HR612	42.21
60A-250V	Disc. Switch-base.	HFB22	71.88
	Fuse clip kit.	HBB22	42.21
	Class R clips.	HR612	42.21
60A-600V	Disc. Switch-base.	HFB62	86.14
	Fuse clip kit.	HBB62	49.06
	Class R clips.	HR62	42.21

#### COIL TABLE

60 Hertz Voltage	Letter
110-120/220-240	A
200-208	D
220-240/440-480	C

#### AUXILIARY CONTACTS

Description	Controller Size	FUR No.	Each
N.O.	All	49AB10	\$63.91
N.C.	All	49AB01	63.91

#### CONTROL TRANSFORMER KITS (49TA Kits Are Supplied With 1 Secondary Fuse)

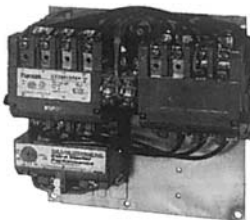
VA	Primary	Secondary	FUR No.	Each
50	240/480	120	KT8050	\$190.56
50	120	24	KT1050	190.56
75	240/480	120	KT8100	266.08
75	120	24	KT1100	266.08

#### COVER CONTROL KITS

(All Pilot Device Kits Are Prewired With Color Coded Wires)

Description	Controller Size	Enclosure Type	FUR No.	Each
Start - Stop	All	1, 4, 12	49SAP05	\$84.82
Hand - Off - Auto	All	1, 4, 12	49SAS01	84.82

## 3-PHASE FULL VOLTAGE REVERSING STARTERS



#### COVER CONTROL KITS & ACCESSORIES FOR REVERSING STARTERS

Description	Controller Size	FUR No.	Each
Forward-Off-Reverse	0 - 1	49SASB2	\$84.82
Auxiliary Contact - N.O.	All	49AB10	63.91
Auxiliary Contact - N.C.	All	49AB01	63.91

### NEMA STYLE WITH SOLID STATE OVERLOAD AND PHASE LOSS PROTECTION

NEMA Size	Maximum H.P.			*Amp Range Solid State Overload	Magnetic Holding Coil Voltage (60 Hz.)	Open Type 3 Pole		NEMA 1 General Purpose	
	Motor Voltage	1 Ø	3 Ø			FUR No.	Each	FUR No.	Each
0	115	1	--	9 - 18	110-120/220-240 200-208 220-240/440-480	22CSE32AA	\$784.72	22CSE32BA	\$824.43
	200	--	3			22CSE32AD	784.72	22CSE32BD	824.43
	230	2	3			22CSE32AC	784.72	22CSE32BC	824.43
	460	--	5						
1	115	2	--	13 - 27	110-120/220-240 200-208 220-240/440-480	22DSF32AA	881.90	22DSF32BA	939.37
	200	--	7-1/2			22DSF32AD	881.90	22DSF32BD	939.37
	230	3	7-1/2			22DSF32AC	881.90	22DSF32BC	939.37
	460	--	10						

\*The ampere range of the solid state overload relay can be modified for lower settings by looping the motor lead wires through the block.

# CONTACTORS & MANUAL STARTERS



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## LIGHTING CONTACTORS ELECTRICALLY HELD



Max. Ampere Rating	No. of Poles	Open		NEMA 1 Enclosed	
		FUR No.	Each	FUR No.	Each
20	4 - N/O	LEN00B004*	\$382.29	LEN01B004*	\$411.62
30	3 - N/O	LEN00C003*	325.73	LEN01C003*	344.59
60	3 - N/O	LEN00D003*	592.81	LEN01D003*	689.17
100	3 - N/O	LEN00E003*	932.82	LEN01E003*	1118.77

\* Replace (\*) with numbers from the following holding coil selection table:

Coil Volts - 60 Cycle	Code Suffix	Coil Volts - 60 Cycle	Code Suffix
24	024	240	240
120	120	277	277
208	208	480	480

Multipole 20 amp contactors up to 12 poles can be field assembled by adding 20 amp power poles.

FUR No.	Description	Each
49LS20A	2-N/O 20 amp power poles, stackable.	\$124.48
49LN20A	2-N/O 20 amp power poles, non-stackable.	124.48

Example: To build an 8 pole, 20 amp lighting contactor, use the LEN00B004 contactor and add 2 #49LS20A power poles.

## FURNAS DEFINITE PURPOSE CONTACTORS CLASS 42 600 VOLT—60 CYCLE



Rating Amperes		Poles	Open Type	
Inductive Full Load	Resistive Per Pole		FUR No.	Each
25	35	3	42AF35A*	\$62.47
25	35	4	42AF25A*	84.13
30	40	2	42BF15A*	42.74
30	40	3	42BF35A*	83.76
30	40	4	42BF25A*	91.68
40	50	3	42CF35A*	81.10
50	63	3	42DF35A*	159.69
60	75	3	42EF35A*	177.82

\* Replace the (\*) with the letter from the coil label below to complete the catalog number.

Coil Volts	Code Suffix	Coil Volts	Code Suffix
24	J	208-240	G
110-120	F	277	L

### ACCESSORIES FOR CLASS 42 DEFINITE PURPOSE CONTACTORS

Description	FUR No.	Each
Side Mount Auxiliary Interlock - 1 - N.O.	49ACR0	\$17.65
Side Mount Auxiliary Interlock - 1 - N.C.	49ACRC	17.65
ON Delay Timer, .22-3 sec., 120V input.	49MC06FF	63.01
ON Delay Timer, 2.2-30 sec., 120V input.	49MC06FG	105.08
NEMA 1 Enclosure, 25-60 Amp.	49EA42BEB	52.87

## MANUAL MOTOR STARTERS



Open Type



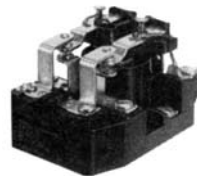
NEMA 1

Across the line starters provide control where remote start-stop control is not required. On/Off rotary handle with locknut and visible trip indication. Adjustment dial for setting to FLA of motor - no heater coils. Ambient compensated up to 140°F. Phase loss sensitive - UL listed, CSA certified.

### CLASS 11— 3RV MOTOR STARTERS

FLA Adj. Range	Max HP 1-Phase		3-Phase				NEMA 1 FUR No.	Each
	115	230	200	230	480	575		
3.5-5	1/6	1/2	1	1	3	3	11RD3B	\$208.98
5.5-8	1/3	1	2	2	5	5	11TD3B	208.98
7-10	1/2	1-1/2	3	3	7-1/2	10	11UD3B	208.98
11-16	1	3	5	5	10	15	11WD3B	258.09

## FURNAS HEAVY DUTY POWER RELAYS



UL-CSA listed heavy duty power relay designed for high inrush current applications such as motor starting and incandescent lamp loads. Not recommended for switching low level loads where contact resistance may be a problem, or applications where the contacts do not make or break the load current.

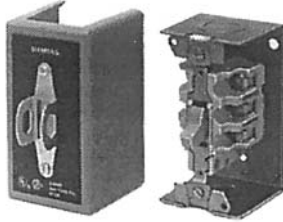
FUR No.	Control Voltage	Contact Config.	Contact Rating	Each
3TX7130-0BF13	120VAC	SPDT	30A	\$33.24
3TX7130-0BS13	277VAC	SPDT	30A	33.24
3TX7130-0DF13	120VAC	DPDT	30A	35.70
3TX7130-0DS13	277VAC	DPDT	30A	35.70



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# MANUAL STARTERS, RELAYS & PUSHBUTTONS

## FRACTIONAL HP MANUAL MOTOR STARTERS WITHOUT OVERLOAD RELAY—NEMA 1



Operator: Toggle. On-Off.

Poles	Maximum H.P.			FUR No.	Each
	115V	230V	450/575V		
2	2	2	3	MMSKG1	\$49.96
3	2	7-1/2	10	MMSKG2	110.38

## FRACTIONAL HP MANUAL MOTOR STARTERS WITH OVERLOAD RELAY—NEMA 1

Price Does Not Include Heater Elements - See Below

Operator: Toggle. On-Off.

Poles	Maximum H.P.		FUR No.	Each
	115-230V	277V		
1	1	1	SMFFG1	\$62.75
2	1	1	SMFFG2	75.53

## CLASS SMF HEATER COILS

FUR No.	Motor Full Load, Amps	FUR No.	Motor Full Load, Amps
SMFH25	1.57 - 1.75	SMFH37	4.33 - 4.90
SMFH26	1.66 - 1.86	SMFH38	4.91 - 5.35
SMFH27	1.80 - 1.99	SMFH39	5.36 - 5.85
SMFH28	1.96 - 2.15	SMFH40	5.86 - 6.41
SMFH29	2.16 - 2.38	SMFH41	6.42 - 6.79
SMFH30	2.39 - 2.75	SMFH42	6.80 - 7.57
SMFH31	2.76 - 2.84	SMFH43	7.58 - 8.15
SMFH32	2.85 - 3.06	SMFH44	8.15 - 8.98
SMFH33	3.07 - 3.45	SMFH45	8.99 - 9.67
SMFH34	3.46 - 3.70	SMFH46	9.68 - 9.95
SMFH35	3.71 - 4.07	SMFH47	9.96 - 10.8
SMFH36	4.08 - 4.32		

Each .....\$16.15

## BRYANT MANUAL MOTOR STARTING SWITCHES 600 VAC—WITHOUT OVERLOAD PROTECTION

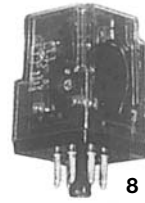


30103

Tech-Spec quality and performance. Ideal for On/Off control of pumps, fans, conveyors, and machine tools.

BRW No.	Description	H.P. Rating	Each
30003	3-pole 30A 600V, open.	3 HP 120V, 7-1/2 HP 240V, 15 HP 480V, 20 HP 600V.	\$560.91
30103	Same as above with NEMA 1 enclosure.	Save as above.	72.96
40003	3-pole 40A 600V, open.	Save as above.	737.08

## GENERAL PURPOSE PLUG-IN RELAYS



8 Pin

Heavy-duty 8 or 11 pint octal base relays with 10 amp contacts and a clear polycarbonate dust cover. Relays can be snap mounted on a standard 33 mm DIN Rail using 46S891 and 46S892 sockets.

Coil Input Voltage	FUR No.	Each
<b>TWO POLE—DOUBLE THROW (8 PIN)</b>		
24 VAC	3TX7112-1LC13	\$23.63
120 VAC	3TX7112-1LF13	23.63
<b>THREE POLE—DOUBLE THROW (11 PIN)</b>		
24 VAC	3TX7112-1NC13	19.54
120 VAC	3TX7112-1NF13	24.25

## DIN RAIL MOUNTING SOCKETS

Description	FUR No.	Each
DPDT 8 pin socket.	3TX7144-1E2	\$6.65
3PDT 11 pin socket.	3TX7144-1E3	13.91

## 30 MM BLACK MAX OILTIGHT PUSHBUTTON COMPONENTS

### PUSHBUTTON OPERATORS



Pushbutton



Mushroom Head

FUR No.	Description	Each
<b>PUSHBUTTONS</b>		
52PX8A1	Black, Flush cap.	\$27.31
52PX8A2	Red, Flush cap.	27.31
52PX8A3	Green, Flush cap.	27.31
52PX8B2	Red, 3/8" Extended cap.	27.31
<b>MUSHROOM HEAD</b>		
52PX9D2	Red, 1-5/8" Head.	57.52
52PX9E2	Red, 2-1/2" Head.	67.39

Legend plates and contact blocks sold separately.

## ILLUMINATED PUSHBUTTON OPERATORS



Transformer type 50/60 Hz. Push to test pilot lights.

FUR No.	Description	Each
<b>OPERATOR WITHOUT LENS</b>		
52PX6GNA	120V, 6V 755 lamp.	\$131.30
52PX6HNA	240V, 6V 755 lamp.	138.27
52PX6JNA	480V, 6V 755 lamp.	131.30
<b>PLASTIC LENSES</b>		
52RA5P2	Red	7.09
52RA5P3	Green	7.09
52RA5P9	Amber	7.09

Legend plates and contact blocks sold separately.

# PUSHBUTTONS



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## BLACK MAX OILTIGHT PUSHBUTTON COMPONENTS (Cont'd.) PUSH-PULL NON-ILLUMINATED PUSHBUTTON OPERATORS

Metal operator and 1 N.O. - N.C.

Description	Color	FUR No.	Each
<b>2 POSITION MAINTAINED</b>			
1 N.O. - 1 N.C. 	Black	52PX2W1A	\$108.06
	Red	52PX2W2A	108.06
<b>3 POSITION MOMENTARY (PULL TO START - PUSH TO STOP)</b>			
1 N.O. - 1 N.C. PULL Center Push 	Black	52PX3W1U	118.52
	Red	52PX3W2U	118.52

Legend plates and contact blocks sold separately.

### SELECTOR SWITCH OPERATORS



Short lever with white insert.

FUR No.	Action	Position	Cam	Each
<b>SELECTOR MAINTAINED OPERATORS</b>				
52SX2AAB	--	2	A	\$37.75
52SX2BAB	--	3	B	37.75
<b>SELECTOR SPRING RETURN OPERATORS</b>				
52SX2ACB	From right	2	A	58.10
52SX2BDB	From R & L	3	B	58.10

### KEY SELECTOR OPERATORS



FUR No.	Action	Position	Cam	Each
<b>SPRING RETURN</b>				
52SC6BV	From R & L	3	B	\$118.52
<b>MAINTAINED</b>				
52SC6AE	From right	2	A	98.76
52SC6BE	From right	3	B	98.76

### PILOT LIGHTS



Transformer type 50/60 Hz.

FUR No.	Description	Each
<b>PILOT LIGHTS—LESS LENS</b>		
52PX4GN	120V, 6V 755 lamp.	\$101.09
52PX4HN	240V, 6V 755 lamp.	101.09
52PX4JN	480V, 6V 755 lamp.	101.09
<b>PLASTIC LENSES</b>		
52RA4P2	Red.	7.09
52RA4P3	Green.	7.09
52RA4P9	Amber.	7.09

## PUSHBUTTON CONTACT BLOCKS



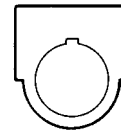
52BAK



52BJK

FUR No.	NEMA Rating	Contacts	Each
52BAK	A600 Q600 (SPST)	N.O.	\$15.22
52BAJ	A600 Q600 (SPST)	N.C.	15.22
52BJK	A600 Q300 (SPDT)	N.O. - N.C. (SPDT)	30.20

## FURNAS LEGEND PLATES



Large (2" wide), with brushed aluminum background.

Legend	FUR No.	Each	Legend	FUR No.	Each
Close	52NL18	\$2.90	Open	52NL17	\$2.90
Down	52NL10	2.90	Open-Off-Close	52NL41	2.90
Emerg. Stop	52NL16	2.90	Pull to, Push to	52NL47	2.90
Forward	52NL05	2.90	Reverse	52NL06	2.90
Forward/Rev.	52NL31	2.90	Run	52NL23	2.90
Hand-Off-Auto	52NL37	2.90	Start	52NL03	2.90
Jog	52NL13	2.90	Start-Stop	52NL32	2.90
Off	52NL12	2.90	Stop	52NL04	2.90
Off-On	52NL26	2.90	Up	52NL09	2.90
On	52NL11	2.90	Blank	52NL02	2.90

## CLASS 50 STANDARD DUTY PUSHBUTTON STATIONS



1 Unit



2 Unit



3 Unit

FUR No.	Description	NEMA Enclosure	Each
<b>1 UNIT STATION—SURFACE MOUNTING</b>			
50AA3C3	Hand-Off-Auto	1	\$60.42
<b>2 UNIT STATION—SURFACE MOUNTING</b>			
50CA3DE	Start, Stop	1	60.42
<b>3 UNIT STATIONS—SURFACE MOUNTING</b>			
50MA3KLE	For., Rev., Stop	1	120.84
50MA3NPE	Up, Down, Stop	1	120.84
50JA3YDE	Start, Stop, Pilot Lt.	1	221.93

**REFER TO CATALOG NUMBERS AND SIZES  
WHEN ORDERING.**



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# PUSHBUTTONS & REPLACEMENT PARTS

## PUSHBUTTON ACCESSORIES



Boot



Plug

FUR No.	Description	Each
52AABA	Clear protective boot. Boot covers the flush or raised pushbutton against dust and weather.	\$20.22
52ABH6	Hole plug. Provides oil tight seal for unused mounting holes in station.	10.10

## OILTIGHT ENCLOSURES



NEMA 12/13, standard enclosure.

FUR No.	Mounting Holes	Each
P30EMS01	1	\$101.09
P30EMS02	2	111.55
P30EMS03	3	131.30

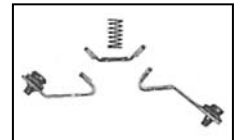
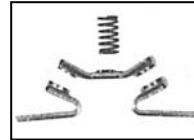
## MOTOR CONTROL REPLACEMENT PARTS OVERLOAD RELAYS—SOLID STATE—CLASS 20



Current Range, Full Load Amps	NEMA Size	FUR No.	Each
3 - 6	0, 1	48ASC3M20	\$109.60
5 - 10		48ASD3M20	109.60
9 - 18		48ASE3M20	128.97
13 - 27		48ASF3M20	109.60
20 - 40		48ASG3M20	189.39
13 - 27	2, 3, 4	48BSF3M20	204.50
22 - 45		48BSH3M20	204.50
30 - 60		48BSJ3M20	248.65
45 - 90		48BSK3M20	248.65
57 - 115		48BSL3M20	362.52
67 - 135		48BSM3M20	362.52

**SOLID STATE  
 OVERLOAD RELAYS BY FURNAS  
 REPLACE BIMETAL AND MELTING  
 ALLOY DESIGNS AND MAY BE  
 MOUNTED DIRECTLY ON MOST  
 MAJOR BRAND STARTERS.**

## MOTOR CONTROL REPLACEMENT PARTS (Cont'd) CONTACT KITS



CLASS 14, 22, 30, 40, 43

Single Pole Stationary and Moveable Contact, Contact Spring

Size	Model	FUR NO.	Each
0	F, P, S	75CF14	\$41.25
1	F, P, S	75DF14	54.61
2	F	75FF14	99.93
2	P, S	75FP14	99.93
3	F, P, S	75HF14	177.78

## AC MAGNETIC COILS



CLASS 14, 22, 30, 40, 43

Size	Model	Volts, 60 Cycle	FUR No.	Each
00 - 2-1/2	F, P, S	24	75D73070J	\$83.66
		110-120/220-240	75D73070A	83.66
		208	75D73070D	83.66
		277	75D73070L	83.66
		220-240/440-480	75D73070C	83.66
3, 3-1/2	F, P, S	110-120/220-240	75D73251A	177.78
		208	75D73251D	177.78
		220-240/440-480	75D73251C	177.78
4	F, P, S	120	75D70131F	214.96
		208	75D70131D	214.96
		277	75D70131L	214.96
		220-240/440-480	75D70131C	214.96

## AC MAGNETIC COILS (INCLUDES DEFINITE PURPOSE CONTROLS)



Volts, 60 Hz.	FUR No.	Each
CLASS 16, 34, 42, 44, LE 20, 30, 60 AMP		
24	75D70550J	\$68.56
110-120	75D70550F	68.56
208-240	75D70550G	68.56
277	75D70550L	68.56
440-480	75D70550H	68.56

CLASS LE 100 AMP		
120	75D54772F	115.03
240	75D54772G	115.03
277	75D54772L	115.03

