

Modifications, Additions Replacements for Circuit Breakers

Replacement Connecting Strap Guide

The following table may be used to obtain the proper connector kit by measuring the exterior dimensions of the panel. Every attempt has been made to make this table complete and accurate. The table is based on panels produced by ITE, Bulldog and Siemens from 1958 to present. Should any questions arise please contact your Siemens sales office for replacements.

Panelboard				
Tub Width	Depth	Panel Type	Replacement Max Amps	Note
30" - 36" - 42"	9"	OLD CDP	400	MCCB only. Use 5939 series connectors
	9.75"	OLD CDP	600	MCCB only use 5939 series connectors Refer for 800/1200A MCCB's
32" - 38"	13.75"	CDP/VB6	1200A	MCCB series 6 connectors
			600A	"VB" style units only (*)
38"	12.75"	SPP/FPP6	1200A	MCCB series 6 connectors
			600A	"VK" or "VB" style (*)

* If switch unit width is 17" it is a vacubreak. If switch unit width is 23" or 28" it is a "VK" switch.

Connecting Strap For Use With SPP/FPP, S5, F2^④

Breakers	Height inches (mm)	Series 6 Number
BQ, BQH, HB	3.75 (95)	6EQ6 ^{①②}
BL, BLH, HBL, BQD, BQD6	3.75 (95)	6BL2C ^{③⑤}
ED2, ED4, ED6, HED4	3.75 (95)	6E62 ^{①②}
CED6	3.75 (95)	6CLE2 ^①
QJ2, QJH2, QJ2H	5 (127)	6QJ2 ^①
FXD6, FD6, HFD6	5 (127)	6F62 ^①
CFD6	5 (127)	6CLF1C ^⑤
JXD2, JXD6, JD2, JD6, HJD6 SJD6, SHJD6	8.75 (222)	6JJ62 ^①
CJD6, SCJD6	8.75 (222)	6CLJ1C ^⑤
LXD6, LD6, HLD6, SLD6, SHLD6	8.75 (222)	6LL61C ^⑤
CLD6	8.75 (222)	6CLL1C ^⑤
SCLD6	8.75 (222)	6SCL61C ^⑤
MD6, HMD6, CMD6, SCMD6	10 (254)	6M61C ^⑤
ND6, HND6, CND6 SND6, SHND6, SCND	10 (254)	6N61C ^⑤

Blank Plates

For use with Series 6 CDP Panelboards, S5, F2, FCI and FCII Switchboards.	
Height	SPP/FPP/CDP/VB 6
1.25"	6FPB01
2.50"	6FPB02
3.75"	6FPB03
5.00"	6FPB05
10.00"	6FPB10
15.00"	6FPB15

Connecting Strap Kits and Front-Filler Plates^⑤

For use with NDP-CDP-7, S3

Breakers	Catalog Number
BQD6 (S3 only)	7 BQD6-2
BL, BLH, HBL,	7 BL-2
QJ2, QJH2, 2 Pole	7 QJ2-1
QJ2, QJH2 3 Pole Single unit, Panel Mount	7 QJ3-1
QJ2, QJH2 3 Pole Double unit, Panel Mount	7 QJ3-2
EC4, ED2, ED4, ED6, HED4, HED6	7 E6-2
Filler 1 Pole	QF3-UL

Connecting Strap Kits^⑤

For OLD CDP and NDP* Panels

Breakers	Catalog Number
QJ2, QJH2, QJ2H	5939-2C
ED2, ED4, HED4	5939-7C
FXD6, FD6, HED6	5939-8C
JXD2, JXD6, JD6, HJD6(A) LXD6, LD6, HLD6	5939-9C
JXD2, JXD6, JD6, HJD6(B)	5939-11C
*FB, FD (C)	5939-14C
CED6	5939-15C
CFD6	5939-16C
CJD6	5939-17C
CLD6	5939-18C
MD6, HMD6, CMD6	5939-19C

(A) Single Branch

(B) Dual Branch

(C) Use a replacement for EE through HE frames on NDP Panel

① These are aluminum connectors. If copper required is please add suffix C.

② 3.75" (95) plate accommodates six 1-pole breakers.

③ 10" (254) plate accommodates eighteen 1-pole breakers.

④ Series 6 connector kits also accommodates FCI and FCII distribution interiors. CDP6 or SPP6 Series Panels.

⑤ These connectors are available in copper only.

⑥ Can be used as fillers or in place of circuit breakers, VK or VB Switches.

Fusible / Power and Distribution

Type F2 (FPP6)

600 Volts AC, 250 Volts DC Maximum
600 Ampere Main Switch,
1200 Ampere Main Lugs Only
600 Ampere Maximum Branch
UL & CSA Short Circuit Rating —
200,000A IR Maximum

Meets 1996 NEC wire bending requirement, section 373-6.
 CSA - C22.2 No. 0.12

Panelboards

Listed by Underwriters' Laboratories, Inc., under "Panelboards" File #E2269 for interiors and #E4016 for boxes and fronts & CSA File #LR93833.

Service

600 Volts AC, 250 Volts DC, Maximum.
 1 Phase, 3 Wire; 3 Phase, 3 Wire; or 3 Phase, 4 Wire.

Boxes

38" wide, 12.75" deep, Type 1

Panelboard Fronts and Doors

Standard panelboards are furnished with 4 piece trim. Fronts are fabricated from code gauge steel and finished ASA61.

Fuses

The Proper Fuse Type for the Application is Selected Using the Following Parameters:

- Voltage Requirements
- Conductor Ampacity
- Horsepower Requirements
- Maximum Available RMS Fault Current
- UL & CSA Fuse Class

UL & CSA Fuse Classes

Class	Amperes	Volts	Interrupting Ratings	I^2t, I_p	Circuits
H	1-600A	250 and 600V or less AC	10,000A	—	Less than 10,000A available
K [®]	1-600A	250 and 600V or less AC	100,000A	—	Feeder circuits
J	1-600A	600V or less	To 200,000A	I^2t -Low I_p -Low	Feeder circuits (motor load small %)
RK1	1/10-600A	600V or less 250V or less	To 200,000A	I^2t -Slightly > J I_p -Slightly > J	Feeder circuits (motor load small %)
RK5	1/10-600A	600V or less 250V or less	To 200,000A	I^2t > RK-1 I_p > RK-1	Motor starting currents a factor
T	1-600A	300 and 600V or less AC	To 200,000A	I^2t -Low I_p -Low	Non-motor loads
L	601-5000A	600V or less	To 200,000A	I^2t -Low I_p -Low	Feeder circuits motor loads

[®]Lug is single barrel construction, rated for 2-250 kcmil or 1-500 kcmil cables.

Main Switch Panel Connectors

Ampere Rating	Connectors Suitable for Cu or Al
400	(1)—#3/0 AWG-500 mcm (2)—#3/0 AWG-250 mcm
600	(2)—#3/0 AWG-500 mcm
800	(3)—#3/0 AWG-500 mcm
1200	(4)—#3/0 AWG-500 mcm

Branch Switch Connectors

Switch Ampere Rating	Wire and Cable Range
30	(1)—#14-#4 AWG (Cu or Al)
60	(1)—#14-#4 AWG (Cu or Al)
100	(1)—#10-#1/0 AWG (Cu or Al)
200	(1)—#6 AWG-350 kcmil (Cu or Al)
400	(2)—#4/0 AWG-500 kcmil (Cu or Al)
600	(2)—#4/0 AWG-500 kcmil

Maximum VB HP Ratings

Amp Rating	3 Phase			Single Phase	DC
	Volts			Volts	Volts
	240	480	600	240	250
30	7.5	15	20	3	5
60	15	30	50	10	10
100	30	50	50	15	20
200	50	—	—	—	40
400	—	—	—	—	50

Maximum VK HP Ratings

Amp Rating	3 Phase			Single Phase	DC
	Volts			Volts	Volts
	240	480	600	240	250
30	7.5	15	20	3	5
60	1.5	30	50	10	10
100	30.0	50	75	15	20
200	60.0	125	150	15	40

Main Lug Panels

Ampere Rating	Connectors Suitable for Cu or Al
400 [®]	(1)—#3/0 AWG-500 mcm (2)—#3/0 AWG-250 mcm
600	(2)—#3/0 AWG-500 mcm
800	(3)—#3/0 AWG-500 mcm
1200	(4)—#3/0 AWG-500 mcm

Gutters

Ampere Rating	End Gutters (Minimum inches)	Side Gutters (Minimum inches)
400	12	7.9
600	12	7.9
800	12	7.9
1200	12	7.9

