

Panelboards

Type P1 Panelboard Factory Assembled / Modifications and Additions

Selection

Enclosure Modifications

Description
Type 1 with gasket Type 1 with dripshield Type 3R - Waterproof and silicone free Type 3R/12 - Dustproof Type 4/4X - Standard type 304 Stainless Steel Type 4/4X - Type 316 Stainless Wider enclosure - 24" wide
Hinged trim Piano hinged trim Trim with padlock Door-in-door trim Screw to the box trim Trim with gasketed door Stainless steel trim
Mounted devices <ul style="list-style-type: none"> ▪ Pilot lights ▪ Toggle switches ▪ Push buttons (Devices mounted into a 10" minimum box extension)
Painted boxes Custom colours

Panel Skirts

See page 6-47

Panel Modifications

Service Entrance Label

Type P1 Panelboards are factory labeled "SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT" when identified as "Service Entrance" at the time of order entry. For regulations governing this feature, please consult CEC, CSA or local electrical authorities.

Bus Material

Represented by "A", "C" or "E" in the 11th digit of the catalogue number

Standard bussing is tin plated Al, alternate bus bar material can be selected:

- Tin plated copper
- Silver plated copper - optional

Branch and Main Breaker and Accessories

See section 5

- Handle blocks
- Handle locks

Panel Modifications (cont.)

Grounding of Panelboards

Ground Bars are shipped with the panel interior factory mounted.

- Non-Insulated Equipment Ground Bar
- Copper Non-Insulated Ground Bar
- Al Insulated Equipment Ground Bar
- Cu Insulated Equipment Ground Bar

Shunt Trip on Main or Branch

BL, BLH, HBL, BQD, BQD6 as branch only. BL, BLH, HBL, ED4, ED6, HED4, uses 1" unit space for shunt trip as a branch device. All others may be used on mains or subfeeds.

Feed-Thru Lugs

Cannot be used in conjunction with SPD or subfeed breakers

Ampere Rating	Type	Connector Wire Range
250	Al Mechanical	(1) #6 AWG - 350 kcmil Al/Cu
	Cu Mechanical	(1) #6 AWG - 350 kcmil Cu
	Compression	(1) #6 AWG - 350 kcmil Al/Cu
400	Al Mechanical	(2) #3/0 AWG - 250 kcmil Al/Cu or (1) #3/0 AWG - 600 kcmil Al/Cu

Compression Lugs

Style	Amp Rating	Breaker Type	Compression Connector Wire Range	Box Height Addition
MLO	125	N/A	(1) #4 AWG - 350 kcmil Al/Cu	None
	250			
	400	N/A	(1) 250 - 600 kcmil or (2) #3/0 AWG - 250 kcmil	None
Main Breaker	125	ED4, ED6, HED4	(1) #12 - 1/0 AWG Al/Cu	Box must go to 24" wide
	250	FXD6, HFD6	(1) #6 AWG - 350 kcmil Al/Cu	Box must go to 24" wide

Note: Standard compression lugs used for P1 are range taking lugs and may require a particular crimping tool to accommodate the range. Consult factory for information.

Surge Protective Devices

see section 6

- TPS3 01
 - Bus connected
 - Internally mounted (30A breaker required to feed SPD)
 - Externally mounted in a 15" high aux. enclosure (30A breaker required to feed SPD)
- TPS3 09
 - Internally mounted (20A breaker required to feed SPD)
 - Externally mounted (20A breaker required to feed SPD)
- TPS3 12
 - Externally mounted (40A breaker required to feed SPD)

Panelboards

Panelboard Replacement, Modification, and Additions

Selection

S1/S2 Panels—All the P1 panel kits for 250 amp and below panels will work for 250 amp maximum S1/S2 panels.

400/600 Amp S1/S2

Lug Kits — Main or Feed-Thru

Ampere Rating	Material	Wire Range	Service	Catalogue Number
125A/250A	Al/Cu	(2) 1/0–250 kcmil	1-Phase	MLKA1
125A/250A	Al/Cu	(2) 1/0–250 kcmil	3-Phase	MLKA3
400A/600A	Al/Cu	(2) #4–250 kcmil or (1) 3/0–500 kcmil	1-Phase	SMLKA1
400A/600A	Al/Cu	(2) #4–250 kcmil or (1) 3/0–500 kcmil	3-Phase	SMLKA3

Breaker Mounting Kits

Ampere Rating	Breaker Types	Service	Catalogue Number
125A	ED2, ED4, ED6, HED4, HED6, HHED6	1-Phase	SMBKED1
225A	ED2, ED4, ED6, HED4, HED6, HHED6	3-Phase	SMBKED3
225A	QJ2, HQJ2, HQJ2H [Ⓞ]	1-Phase	SMBKQJ1
225A	QJ2, HQJ2, HQJ2H [Ⓞ]	3-Phase	SMBKQJ3
250A	FXD6, FD6, HFXD6, HFD6	1-Phase	SMBKFD1
250A	FXD6, FD6, HFXD6, HFD6	3-Phase	SMBKFD3
400A	JD6, JXD6, HJD6, HJXD6	1-Phase	SMBKJD1
400A	JD6, JXD6, HJD6, HJXD6	3-Phase	SMBKJD3
600A	LD6, LXD6, HLD6, HLXD6	1-Phase	SMBKLD1
600A	LD6, LXD6, HLD6, HLXD6	3-Phase	SMBKLD3

Neutral Kits

Ampere Rating	Description	Catalogue Number
250A max.	30/42 circuit 200% neutral kit	2NLK2
400/600A max.	42 circuit 200% neutral kit	2NLK1

[Ⓞ] QJ mounting kit is for subfeed breakers only, not main breaker.
The kit contains mountings for (2) breakers.