

Panelboards

Type P4 Panelboards

General

Features

The P4 panel has a medium sized footprint and fits a larger number of applications that require larger branch devices and higher amp ratings than what the lighting panel class offers. Even with the increased capacity, this panel is a space saver with its 32" width and 10" depth. The P4 panel offers a wide array of factory-assembled options and has the ability to mix breaker frames in unit space up to 800 amps and fusible switches up to 200 amps. Bussing options for the P4 vary from the standard temperature rated aluminum to temperature rated copper and 750A/SI aluminum and 1000A/SI copper designs. All aluminum bussing in the P4 panel is tin-plated as a standard. Silver-plated is offered as the default for copper bus and tin as an option. Integrated time clocks, bus mounted contactors as mains or submains, split bus and subfeed lugs (up to 600 amp) are just a few of the options of this flexible panel.

The 3 panel configurations defined by the unit space allowed for a given amperage, main device and box height. The P4 panel starts with a 60" high box. All of the branch devices are unit space mounted. Breakers and switches can be mixed and matched to meet customer requirements.

Main Lug / Main Breaker

Enclosure – Standard Type 1 enclosure is 32" wide x 10" deep. The Box Height is determined by main device and unit space. See charts for box height. Voltage – 600V AC max. 250V DC max.

Amperage – 400-800 amp main breaker or 400-1200 amp main lug only.

Short Circuit Rating – 200 KAIC max. symmetrical or equal to the lowest rated device installed unless a series rating is indicated. Panels with subfeed or feed-thru lugs without a main device, circuit breaker or fusible unit, are limited to a three-cycle rating. The three-cycle rating for the P4 panel is limited to 42 KAIC. Note that the main device may be mounted remote from the panel.

Bussing – The P4 panel has more options to meet market requirements. The standard bussing is temperature rated aluminum. The rating is per the requirements of UL 67 – the standard for panelboards. All aluminum bussing is tin-plated. Optional bussing for the P4 panel is: 750 A/SI aluminum, temperature rated copper, and 1000 A/SI copper. The copper bus option for this panel is silver-plated.

Weight – Approximate

Total panelboard weight when filled with a normal quantity of breakers and accessories is about 8 lbs. (1 kg) per inch (54g per mm) of box height.

Main Lugs^①

Ampere Rating	Connectors Suitable for Copper or Aluminum
400	(1) - #3/0 AWG-500 kcmil (2) - #3/0 AWG-250 kcmil
600	(2) - #3/0 AWG-500 kcmil
800	(3) - #3/0 AWG-500 kcmil
1000	(4) - #3/0 AWG-500 kcmil
1200	(4) - #3/0 AWG-500 kcmil

^① Alternate lugs for 750 kcmil cable are available, but result in significant loss of branch unit mounting space. Consult Siemens.

Gauge Steel of Boxes Fronts, Surface and Flush

Dimensions in inches (mm)		Gauge Steel	
Width	Height	Box	Fronts
32" (813)	60 - 75 - 90 (1524, 1905, 2286)	#16 ^①	#14 (1 piece trim) #14 Ga (4 piece trim)
		#12	#12 (1 piece trim, door in door)
		#10	#10 (1 piece door trim in)
		#16	#16 (4 piece trim)

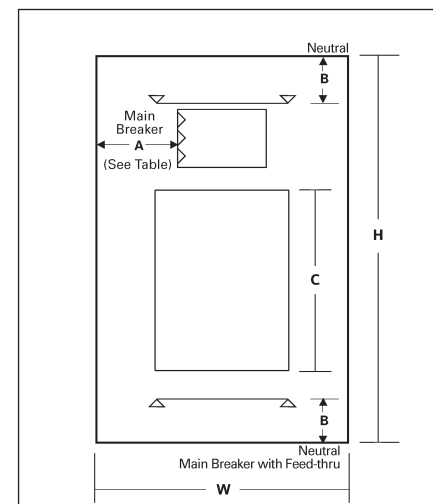
^① Box has 16 gauge side panels, 14 gauge backplates and 12 gauge back support.

Enclosure Selection^①

Enclosure Dimension in Inches (mm)			Available Circuit Space in Inches (mm) Dimension "C"	
H	W	D	Main Lug	Main Breaker
Type 1 and Type 3R/12			400-800A	400-800A
60 (1524)	32 (813)	10 (254)	30 (762)	21.25 (540)
75 (1905)	32 (813)	10 (254)	45 (1143)	36.25 (921)
90 (2286)	32 (813)	10 (254)	60 (1524)	51.25 (1302)

Main Breaker Unit Space Dimensions

Ampere Rating	Breaker Type	Breaker Family	Dimensions in Inches (mm)	
			A	B
400	JXD6, JD6, HJXD6, HJD6, HHJXD6, HHJD6	Sentron	10.425 (265)	13.125 (333)
400	NJ, HJ, LJ ^②	VL	12.500 (318)	
400	SJD6, SHJD6	Sentron	10.425 (265)	
400	CJD6, SCJD6	Sentron	8.250 (210)	
600	LXD6, LD6, HLXD6, HLD6, HHLXD6, HHLD6	Sentron	10.425 (265)	
600	NL, HL, LL ^②	VL	11.250 (286)	
600	SLD6, SHLD6	Sentron	10.425 (265)	
600	CLD6, SCLD6	Sentron	8.250 (210)	
800	NM, HM, LM	VL	10.500 (267)	



^① Standard trim is four piece without door. Surface or flush one piece trim is available for 32 in. (813 mm) wide circuit breaker panel.

^② Solid state (electronic) trip units only.