

Power Panelboards

P4 Panelboards

Features

The P4 panel is a medium sized footprint distribution panel to fit a large number of applications that require more or larger branch devices and higher amp ratings than 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. X 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.

Enclosure Selection

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)

Branch Breaker Side Gutter Inches (mm)

Reference Letter	Panel Width 32 Inches Dimensions in inches (mm)
A	11.0 (279)
B	10.98 (279)
C	8.62 (219)
D	7.0 (178)
E	5.75 (146)
F	5.25 (133)
H	4.62 (177)
I	8.76 (223)
J	10.42 (265)
K	10.0 (254)
L	8.25 (210)
M	10.0 (254)
N	7.0 (178)
O	5.0 (127)
P	7.50 (191)
Q	7.9 (200)
R	7.9 (200)
S	2.5 (318)
T	11.25 (286)

← A →	BL, BLH, HBL, BQD, BLE BLEH, BLR, BLF, BLHF, BAF, BAHF, BGL, BQD	BL, BLH, HBL, BQD, BLE BLEH, BLR, BLF, BLHF, BAF, BAHF, BGL, BQD	← A →
← B →	NGB, HGB, LGB	NGB, HGB, LGB	← B →
← C →	NGB2, HGB2, LGB2	NGB2, HGB2, LGB2	← C →
← D →	NEB, HEB	NEB, HEB	← D →
← E →	ED4, ED6, HED4, HHED6	ED4, ED6, HED4, HHED6	← E →
← F →	FXD6, FD6, HFXD6, HFD6, HHFXD6, HHFD6, SFD6, SHFD6	FXD6, FD6, HFXD6, HFD6, HHFXD6, HHFD6, SFD6, SHFD6	← F →
← G →	CFD6, SCFD6	CFD6, SCFD6	← G →
← H →	QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H	QJ2, QJH2, QJ2H, QR2, QRH2, HQR2, HQR2H	← H →
← I →	ND, HD, LD	ND, HD, LD	← I →
← J →	NF, HF, LF	NF, HF, LF	← J →
← K →	CFD6, SCFD6	CFD6, SCFD6	← K →
← L →	JD6, JXD6, SJD6, HJD6, HXJD6, SHJD6, HHJD6, HHJXD6, LD6, LXD6, SLD6, HLD6, HXLD6, SHLD6, HHL6, HHLXD6	JD6, JXD6, SJD6, HJD6, HXJD6, SHJD6, HHJD6, HHJXD6, LD6, LXD6, SLD6, HLD6, HXLD6, SHLD6, HHL6, HHLXD6	← L →
← M →	CJD6, SCJD6, CLD6, SCLD6	CJD6, SCJD6, CLD6, SCLD6	← M →
← N →	NJ, HJ, LJ	NJ, HJ, LJ	← N →
← O →	NL, HL, LL	NL, HL, LL	← O →
← P →	NM, HM, LM	NM, HM, LM	← P →
← Q →	VB 30A, VB 60A (5")	VB 30A, VB 60A (5")	← Q →
← R →	VB 30A, VB 60A (5")	VB 30A, VB 60A (5")	← R →
← S →	VB 100 - 200A	VB 100 - 200A	← S →
← T →	VB 100 - 200A Single	VB 100 - 200A Single	← T →

Filler Plates

For use with Type P4, Type S4 or Sentron SPP Shallow depth panelboards	
Breaker Type	Filler Plate Catalog No.
BL, BLH, HBL ED2, ED4, ED6, HED4, HHED6, NGB, HGB, LGB, NGB2, HGB2, LGB2	DFFP1 ^①
NEB, HEB	EBF1

^① Suitable to replace QF3 in P1 thru P5 Panelboards and Switchboards.

Blank Plates — Circuit Breaker and Vacu-Break

For use with Type P4, Type S4 or Sentron SPP Shallow depth panelboards	
Height (inches)	Catalog Number
1.25	6FPB01
2.5	6FPB02
3.75	6FPB03
5.0	6FPB05
10.0	6FPB10

Cover Plates

For use with Sentron Shallow depth or Type SPP/FPP/F1/P4 power panels	
Breaker Type	Catalog Number
QR	SQRC ^①

^① To replace a QJ with a QR only a new cover is needed up to 225A.

Connecting Strap Kits Fusible

For use with Sentron Shallow Depth or Type SPP/FPP/F1/P4 power panels		
Ampere Rating	Unit Height (inches)	10" Deep Box Catalog Number
30-30	2.5	F602
30-60	5, 7.5	F657
30-60	5, 7.5	F657
60-60	5, 7.5	F657
60-100	5, 7.5	F657
100-100	5, 7.5	F657
100	7.5	F657
200	7.5	F657
200	10	F671
200-200	10	F672

Connecting Strap Kits — w/o Circuit Breaker

For use with Type P4, Type S4 or Sentron SPP Shallow depth panelboards					
Max Amp Rating	Breaker Family	Breaker Type	Catalog Number ^①	Unit Height (inches)	Mounting
100	General	BL, BQD	SBL	3.75	Twin
	General	xGB	SNB	3.75	Twin
	General	xGB2	SGB2	3.75	Twin
125	General	EB	SEB	3.75	Twin
	General	ED	SE6	3.75	Twin
	General	CEB	SCE	3.75	Twin
	General	ED	SCE	3.75	Twin
150	VL	DG	SDG	5.00	Twin
	General	QJ	SQJ	5.00	Twin
225	General	QR ^②	SQR	5.00	Twin
	VL	FG	SFG	5.00	Twin
250	Sentron	FD	SF6	5.00	Twin
	Sentron	CFD	SCF	5.00	Single
	VL	JG	SJG	6.25	Single
400	Sentron	JD	SJ1	8.75	Single
	Sentron	CJD	SCJ	8.75	Single
	Sentron	SJD	SSJ1	8.75	Single
	Sentron	SCJD	SSCJ	8.75	Single
600	VL	LG	SLG	6.25	Single
	Sentron	LD	SL6	8.75	Single
	Sentron	CLD	SCL	8.75	Single
	Sentron	SLD	SSL6	8.75	Single
800	Sentron	SCLD	SSCL	8.75	Single
	VL	MG	MG1	8.75	Single

^① Includes housing frame plate without breaker handle opening. Provisions include all necessary mounting hardware less breakers.

^② Although QR is rated 250A, it is limited to 225A in panelboard.

Branch Breaker Selection^①

Breaker Frame Rating	Trip Type	Breaker Family	Frame Type	Poles	Trip Amperage	Unit Space Requirements in Inches		Maximum Interruption Rating (KAIC) Volts AC					
						Single	Twin	120	240	480Y/277	480	600Y/347	600
100	Thermal Magnetic	General Application	BL	1, 2, 3	15-60, 70, 80, 90, 100	—	3.75 ^{②③}	10,000	10,000	—	—	—	—
			BLR	2	15, 20, 30, 40, 50, 60, 70, 80, 90, 100	—	3.75 ^{②③}	10,000	10,000	—	—	—	—
			BLH	1, 2, 3	15-60, 70, 80, 90, 100	—	3.75 ^{②③}	22,000	22,000	—	—	—	—
			HBL	1, 2, 3	15-60, 70, 80, 90, 100	—	3.75 ^{②③}	65,000	65,000	—	—	—	—
			BQD	1, 2, 3	15-50, 60, 70, 80, 90, 100	—	3.75 ^{②③}	65,000	65,000	14,000	—	—	—
			BQD6	1, 2, 3	15-50, 60, 70	—	3.75 ^{②③}	65,000	65,000	—	—	10,000	—
	Special Application Ground Fault Circuit Interrupter Arc Fault Circuit Interrupter	General Application	BL-HID	1, 2	15, 20, 30	—	3.75 ^{②③}	10,000	10,000	—	—	—	—
			BL-BG	2, 3	15, 20, 30	—	3.75 ^{②③}	10,000	10,000	—	—	—	—
			BLE-GFCI	1, 2	15, 20, 30, 40, 50, 60	—	3.75 ^②	10,000	10,000	—	—	—	—
			BLEH-GFCI	1, 2	15, 20, 30, 40, 50, 60	—	3.75 ^②	10,000	10,000	—	—	—	—
			BLF-GFCI	1, 2	15, 20, 30, 40, 50, 60	—	3.75 ^②	10,000	10,000	—	—	—	—
			BLHF-GFCI	1, 2	15, 20, 30, 40, 50, 60	—	3.75 ^②	10,000	10,000	—	—	—	—
			BAF-AFCI	1, 2	15, 20	—	3.75 ^②	10,000	10,000	—	—	—	—
			BAFH-AFCI	1, 2	15, 20	—	3.75 ^②	10,000	10,000	—	—	—	—
			BAFC-AFCI	1, 2	15, 20	—	3.75 ^②	10,000	10,000	—	—	—	—
BAFCH-AFCI	1, 2	15, 20	—	3.75 ^②	10,000	10,000	—	—	—	—			
125	Thermal Magnetic	General Application	NGB	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	25,000	—	14,000	—
			HGB	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	35,000	—	14,000	—
			LGB	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	65,000	—	14,000	—
			NGB2	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	25,000	14,000	—
			HGB2	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	35,000	22,000	—
			LGB2	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	65,000	25,000	—
			NEB	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	85,000	—	35,000	22,000	—
			HEB	1, 2, 3	15-60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	65,000	25,000	—
			ED4	1, 2, 3	15-50, 60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	65,000	—	18,000	—	—
			HED4 ^{④⑤}	1, 2, 3	15-50, 60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	42,000	—	—
			HHED6	2, 3	15-50, 60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	100,000	—	65,000	—	18,000
			CED6	2, 3	15-50, 60, 70, 80, 90, 100, 110, 125	—	3.75 ^{②③}	—	200,000	—	200,000	—	100,000
150	Electronic (Solid state)	VL	ND	3	60, 100, 150	—	5.00	—	65,000	—	35,000	—	18,000
			HD	3	60, 100, 150	—	5.00	—	100,000	—	65,000	—	20,000
			LD	3	60, 100, 150	—	5.00	—	200,000	—	100,000	—	25,000
225	Thermal Magnetic	General Application	QJ2	2, 3	60-110, 125, 150, 175, 200, 225	—	5.00	—	10,000	—	—	—	—
			QJH2	2, 3	60-110, 125, 150, 175, 200, 225	—	5.00	—	22,000	—	—	—	—
			QJ2H	2, 3	60-110, 125, 150, 175, 200, 225	—	5.00	—	42,000	—	—	—	—
			QR2	2, 3	100, 110, 125, 150, 175, 200, 225	—	5.00	—	10,000	—	—	—	—
			QRH2	2, 3	100, 110, 125, 150, 175, 200, 225	—	5.00	—	25,000	—	—	—	—
			HQR2	2, 3	100, 110, 125, 150, 175, 200, 225	—	5.00	—	65,000	—	—	—	—
			HQR2H	2, 3	100, 110, 125, 150, 175, 200, 225	—	5.00	—	100,000	—	—	—	—
			FXD6, FJD6	2, 3	70-110, 125, 150, 175, 200, 225, 250	5.00	5.00	—	65,000	—	35,000	—	22,000
HFXD6, HFJD6	2, 3	70-110, 125, 150, 175, 200, 225, 250	5.00	5.00	—	100,000	—	65,000	—	25,000			
HHFXD6, HHFJD6	2, 3	70-110, 125, 150, 175, 200, 225, 250	5.00	5.00	—	200,000	—	100,000	—	25,000			
CFD6	3	70-110, 125, 150, 175, 200, 225, 250	—	5.00	—	200,000	—	200,000	—	100,000			
250	Thermal Magnetic	Sentron	NF	3	100, 150, 250	5.00	5.00	—	65,000	—	35,000	—	18,000
			HF	3	100, 150, 250	5.00	5.00	—	100,000	—	65,000	—	20,000
			LF	3	100, 150, 250	5.00	5.00	—	200,000	—	100,000	—	25,000
	Electronic (Solid state)	VL	JXD6, JD6	2, 3	200, 225, 250, 300, 350, 400	8.75	—	—	65,000	—	35,000	—	25,000
			HJXD6, HJD6	2, 3	200, 225, 250, 300, 350, 400	8.75	—	—	100,000	—	65,000	—	35,000
			HHJXD6, HHJJD6	2, 3	200, 225, 250, 300, 350, 400	8.75	—	—	200,000	—	100,000	—	50,000
400	Thermal Magnetic	Sentron	CJD6	3	200, 225, 250, 300, 350, 400	8.75	—	—	200,000	—	150,000	—	100,000
			NJ	3	250, 400	6.25	—	—	65,000	—	35,000	—	25,000
			HJ	3	250, 400	6.25	—	—	100,000	—	65,000	—	25,000
	Electronic (Solid state)	VL	LJ	3	250, 400	6.25	—	—	200,000	—	100,000	—	25,000
			SJD6	3	200, 300, 400	8.75	—	—	65,000	—	35,000	—	25,000
			SHJD6	3	200, 300, 400	8.75	—	—	100,000	—	65,000	—	35,000
600	Thermal Magnetic	Sentron	SCJD6	3	200, 300, 400	8.75	—	—	200,000	—	150,000	—	100,000
			LXD6	2, 3	450, 500, 600	8.75	—	—	65,000	—	35,000	—	25,000
			LD6	2, 3	250, 300, 350, 400, 450, 500, 600	8.75	—	—	65,000	—	35,000	—	25,000
			HLXD6, HLD6	2, 3	250, 300, 350, 400, 450, 500, 600	8.75	—	—	100,000	—	65,000	—	35,000
			HHLXD6, HHLD6	2, 3	250, 300, 350, 400, 450, 500, 600	8.75	—	—	200,000	—	100,000	—	50,000
			CLD6	3	250, 300, 350, 400, 450, 500, 600	8.75	—	—	200,000	—	150,000	—	100,000
	Electronic (Solid state)	VL	NL	3	400, 600	6.25	—	—	65,000	—	35,000	—	25,000
			HL	3	400, 600	6.25	—	—	100,000	—	65,000	—	25,000
			LL	3	400, 600	6.25	—	—	200,000	—	100,000	—	25,000
		Sentron	SLD6	3	300, 400, 500, 600	8.75	—	—	65,000	—	35,000	—	25,000
			SHLD6	3	300, 400, 500, 600	8.75	—	—	100,000	—	65,000	—	35,000
			SCLD6	3	300, 400, 500, 600	8.75	—	—	200,000	—	150,000	—	100,000
800	Thermal Magnetic	VL	NM	2, 3	600, 700, 800	8.75	—	—	65,000	—	35,000	—	25,000
			HM	2, 3	600, 700, 800	8.75	—	—	100,000	—	65,000	—	35,000
			LM	2, 3	600, 700, 800	8.75	—	—	200,000	—	100,000	—	50,000
	Electronic (Solid state)	VL	NM	3	600, 800	8.75	—	—	65,000	—	35,000	—	25,000
			HM	3	600, 800	8.75	—	—	100,000	—	65,000	—	35,000
			LM	3	600, 800	8.75	—	—	200,000	—	100,000	—	50,000

① Space price covers cost of housing frame plate with blank cover plate. Provision price includes all necessary mounting hardware, less circuit breaker, and includes housing frame cover plate with breaker handle opening.

② 1 to 6 poles may be mounted in 3.75" of unit space.

③ Accessories such as shunt trips on three pole breakers require 6.25" of unit space.

④ HED4 1-pole 15-30A = 65,000 IR
35-100A = 25,000 IR

⑤ HED 4 3-Pole=42,000 IR

P4 Enclosures

Description	Catalog Number
P4 Type 1 32" W x 10" D x 60" H	PB60
P4 Type 1 32" W x 10" D x 75" H	PB75
P4 Type 1 32" W x 10" D x 90" H	PB90
P4 Type 3R/12 60" H	WP260
P4 Type 3R/12 75" H	WP275
P4 Type 3R/12 90" H	WP290

P4 Flush Mounting Kits

Description	Catalog Number
Flush kit for P4 60" High	F60
Flush kit for P4 75" High	F75
Flush kit for P4 90" High	F90

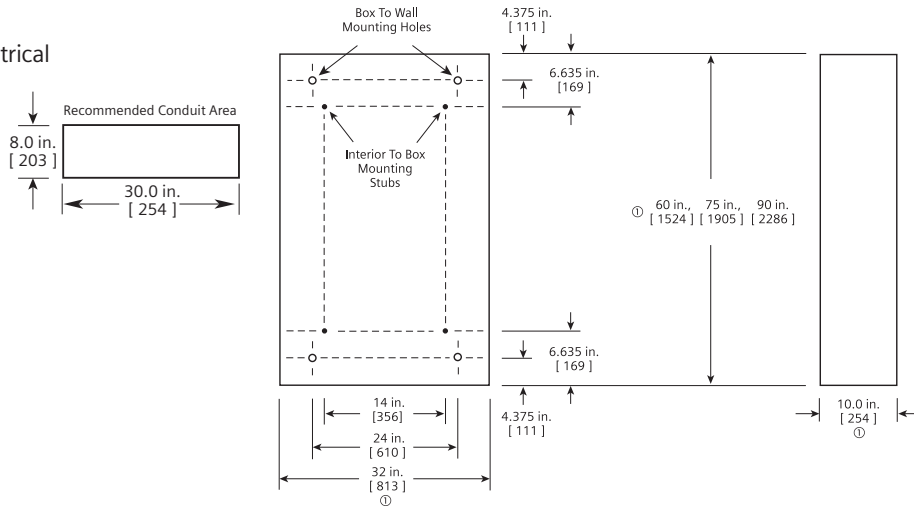
P4 Trims

Description	Catalog Number
P4 Std (4 piece trim) vented 60"	P460V
P4 Std (4 piece trim) vented 75"	P475V
P4 Std (4 piece trim) vented 90"	P490V
P4 VBS Std (4 Piece trim) vented 60"	P460VV
P4 VBS Std (4 Piece trim) vented 75"	P475VV
P4 VBS Std (4 Piece trim) vented 90"	P490VV
P4 Std (4 piece trim) unvented 60"	P460NV
P4 Std (4 piece trim) unvented 75"	P475NV
P4 Std (4 piece trim) unvented 90"	P490NV
P4 VBS Std (4 Piece trim) unvented 60"	P460NVV
P4 VBS Std (4 Piece trim) unvented 75"	P475NVV
P4 VBS Std (4 Piece trim) unvented 90"	P490NVV
P4 Std (4 piece trim) vented 60" with hinged gutter covers	P460VHG
P4 Std (4 piece trim) vented 75" with hinged gutter covers	P475VHG
P4 Std (4 piece trim) vented 90" with hinged gutter covers	P490VHG
P4 VBS Std (4 piece trim) vented 60" w/Hinged gutter covers	P460VVHG
P4 VBS Std (4 piece trim) vented 75" w/Hinged gutter covers	P475VVHG
P4 VBS Std (4 piece trim) vented 90" w/Hinged gutter covers	P490VVHG

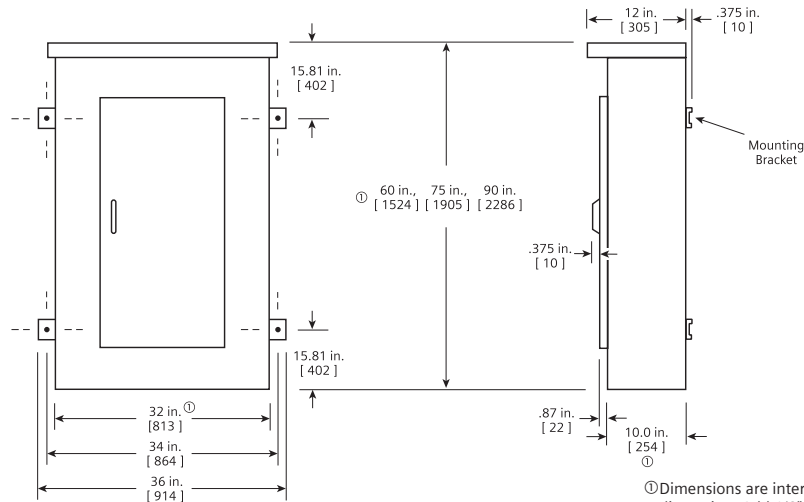
Description	Catalog Number
P4 Std (4 piece trim) unvented 60" with hinged gutter covers	P460NVHG
P4 Std (4 piece trim) unvented 75" with hinged gutter covers	P475NVHG
P4 Std (4 piece trim) unvented 90" with hinged gutter covers	P490NVHG
P4 VBS Std (4 piece trim) unvented 60" w/Hinged gutter covers	P460NVVHG
P4 VBS Std (4 piece trim) unvented 60" w/Hinged gutter covers	P475NVVHG
P4 VBS Std (4 piece trim) unvented 60" w/Hinged gutter covers	P490NVVHG
P4 Std (1 PC Door) vented 60"	P460VD
P4 Std (1 PC Door) vented 75"	P475VD
P4 Std (1 PC Door) vented 90"	P490VD
P4 Std (1 PC Door) unvented 60"	P460NVD
P4 Std (1 PC Door) unvented 75"	P475NVD
P4 Std (1 PC Door) unvented 90"	P490NVD
P4 Std (1 PC Door-in-door) vented 60"	P460VDD
P4 Std (1 PC Door-in-door) vented 75"	P475VDD
P4 Std (1 PC Door-in-door) vented 90"	P490VDD
P4 Std (1 PC Door-in-door) unvented 60"	P460NDD
P4 Std (1 PC Door-in-door) unvented 75"	P475NDD
P4 Std (1 PC Door-in-door) unvented 90"	P490NDD

Type 1 Box

Box is symmetrical



Type 3R and 3R/12 Box



Siemens Industry, Inc.
5400 Triangle Parkway
Norcross, GA 30092

1-800-241-4453
info.us@siemens.com

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① Dimensions are interior of the box. Add 5/8" to width for absolute dimension. Add 1/8" to height for absolute dimension.
Dimensions shown in inches and millimeters [].