

EPDB Series

Enclosed Power Distribution Blocks



Features and Benefits

- High Short-Circuit Current Ratings (SCCR) up to 200kA
- Suitable for installation in wireways and industrial control panel feeder and branch circuits
- Small footprint saves panel space
- Enclosed for enhanced safety

Agency and Standards

- UL Listed 1953, Guide QPQS, File E256146
- CSA Certified, Class 6228-01, File 700490
- CE
- IEC 60947-7-1; IEC 60539

Electrical:

- Short-Circuit Current Ratings up to 200kA, see table next page
- Ampacities up to 760 amps
- 600Vac/dc (UL 1953), 690Vac/dc (IEC)
- 75°C Rated connectors
- Cu Wire range 14AWG to 500kcmil (2.5 to 240mm²)

Mechanical:

- DIN Rail or panel mount (EPDB306 & EPDB702 panel mount only)
- Sliding DIN rail latch for easy mounting
- Captive termination screws, so screws do not get misplaced
- Screws backed out at the factory to save conductor installation time
- Single-pole, gang mountable for multiple pole applications
- Flammability, UL 94V0
- Tin-plated Al connectors suitable for Cu conductors
- Elongated hole for panel mounting - easier mounting with greater flexibility in matching up with drilled panel holes
- DIN Rail end anchors required to prevent damage to block when torquing. Anchors offered by third party supplier

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Electrical Data

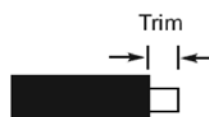
Series EPDB												
Electrical		Terminal Copper Conductor Capability				Short-Circuit Current Rating Data						
		Lineside	Loadside	Configuration		Conductors		Max Fuse Class & Amp**				
Part Number	Amps	Wire Range	Wire Range	Openings per Pole		Line	Load	J	T	RK1	RK5	SCCR
				Line	Load	AWG or kcmil	AWG or kcmil	JDL	TJS TJN	LESRK LENRK	ECSR ECNR	
EPDB101	175A	2/0 to 8 AWG 70 to 10mm ²	2/0 to 8 AWG 70 to 10mm ²			2/0 to 8	2/0 to 8	200	200	100	60	200 kA
EPDB104	175A	2/0 to 8 AWG 70 to 10mm ²	4 to 14 AWG 25 to 2.5mm ²			2/0 to 8	4 to 12	200	200	100	60	200 kA
							14	175	175	100	60	100 kA
								200	200	100	60	50 kA
EPDB301	310A	350kcmil to 6 AWG 185 to 16mm ²	350kcmil to 6 AWG 185 to 16mm ²			350 to 6	350 to 6	400	400	200	100	200 kA
EPDB306	380A	500kcmil to 6 AWG 240 to 16mm ²	2 to 14 AWG 35 to 2.5mm ²			500 to 6	2 to 6	400	400	200	100	200 kA
							8 to 14	200	200	100	30	50 kA
								175	175	100	30	100 kA
EPDB512	570A	300kcmil to 4 AWG 150 to 25mm ²	4 to 14 AWG 25 to 2.5mm ²			300	4 to 8	600	600	400	200	200 kA
						250 to 4	4	600	600	400	200	50 kA
							6 to 14	200	200	100	30	50 kA
EPDB602	620A	350kcmil to 4 AWG 185 to 25mm ²	350kcmil to 4 AWG 185 to 12mm ²			350	350	600	600	400	200	200 kA
						300 to 4	300 to 4	600	800*	600	200	100 kA
								600	800*	600	400	200 kA
EPDB702	760A	500kcmil to 6 AWG 240 to 16mm ²	500kcmil to 6 AWG 240 to 16mm ²			500	500	600	800*	600	400	200 kA
						400 to 6	600	800*	600	600	100 kA	
							600	600	400	200	100 kA	

Ampacities 75°C per NEC® Table 310.16 and UL 508A Table 28.1

*Class L 800A (LCL 800) or less fuses suitable for this particular SCCR case.

**Class G 60A (SEC-60) or less or Class CC 30A (EDCC30, HCTR30, HCLR30) or less are suitable for all the SCCRs in this table.

Series EPDB												
Part Number	Lineside				Loadside				Wire Connector Hole Diameter			
	CU Wire Range	Torque Lb-In (N·m)	Trim Length in (mm)	Hex Key	CU Wire Range	Torque Lb-In (N·m)	Trim Length in (mm)	Hex Key	Lineside in (mm)	Loadside in (mm)	Min. Enclosure Size - inch	
EPDB101	2/0 to 8 AWG 70 to 10mm ²	110 (12.4)	0.85 (21.6)	3/16"	2/0 to 8 AWG 70 to 10mm ²	110 (12.4)	0.97 (24.6)	3/16"	0.45 (11.5)	0.45 (11.5)	16 X 16 X 6.75	
EPDB104	2/0 to 8 AWG 70 to 10mm ²	120 (13.6)	0.75 (19.0)	3/16"	4 to 6 AWG 25 to 16mm ²	35 (4.0)	0.55 (14) top row 0.85 (21.6) bottom row	1/8"	0.45 (11.5)	0.246 (6.25)	16 X 16 X 6.75	
					8 AWG 10mm ²	25 (2.8)						
					10 to 14 AWG 6 to 2.5mm ²	20 (2.3)						
EPDB301	350 Kcmil to 6 AWG 185 to 16mm ²	275 (31.1)	1.35 (34.3)	5/16"	350 Kcmil to 6 AWG 150 to 16mm ²	275 (31.1)	1.25 (31.8)	5/16"	0.72 (18.3)	0.72 (18.3)	36 X 30 X 12.625	
EPDB306	500 Kcmil to 6 AWG 240 to 16mm ²	500 (56.5)	1.25 (31.8)	3/8"	2 to 3 AWG 35mm ²	50 (5.7)	0.59 (15) top row 1.2 (30.5) bottom row	1/8"	0.87 (22.1)	0.314 (8.0)	24 X 20 X 6.75	
					4 to 6 AWG 25 to 16mm ²	45 (5.1)						
					8 AWG 10mm ²	40 (4.5)						
					10 to 14 AWG 6 to 2.5mm ²	35 (4.0)						
EPDB512	300 Kcmil to 4 AWG 150 to 25mm ²	275 (31.1)	1.15 (29.2) top row 1.4 (35.6) bottom row	1/4"	4 to 6 AWG 25 to 16mm ²	35 (4.0)	0.55 (14) top row 1 (25.4) middle row 1.22 (31) bottom row	1/8"	0.687 (17.5)	0.265 (6.7)	24 X 20 X 6.75	
					8 AWG 10mm ²	25 (2.8)						
					10 to 14 AWG 6 to 2.5mm ²	20 (2.3)						
EPDB602	350 Kcmil to 4 AWG 185 to 25mm ²	275 (31.1)	1.250 (31.8)	5/16"	350 Kcmil to 4 AWG 185 to 25mm ²	275 (31.1)	1.25 (31.8)	5/16"	0.718 (18.2)	0.718 (18.2)	36 X 30 X 12.625	
EPDB702	500 Kcmil to 6 AWG 240 to 16mm ²	500 (56.5)	1.25 (31.8)	3/8"	500 Kcmil to 6 AWG 240 to 16mm ²	500 (56.5)	1.25 (31.8)	3/8"	0.875 (22.2)	0.875 (22.2)	36 X 30 X 12.625	



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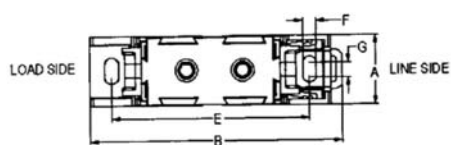
Specific Conditions to Achieve IP-20 Finger-Safe Status for Series EPDB

Part Number	Lineside				Loadside			
	Trim Length in (mm)	Installed Wire	IP20		Trim Length in (mm)	Installed Wire	IP20	
			Conductor Openings	Screw Openings			Conductor Openings	Screw Openings
EPDB101	0.85 (21.6)	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes	0.97 (24.6)	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes
EPDB104	0.75 (19.0)	2/0 to 8 AWG 70 to 10mm ²	Yes	Yes	0.55 (14) top row, 0.85 (21.6) bottom row	4 to 14 AWG 25 to 2.5mm ²	Yes	Yes
						screws fully opened	N/A	Yes
						no wire in hole	No	N/A
EPDB301	1.35 (34.3)	350 Kcmil to 2/0 AWG 185 to 70mm ²	Yes	Yes	1.25 (31.8)	350 Kcmil to 2/0 AWG 150 to 70mm ²	Yes	Yes
		1/0 to 6 AWG 50 to 16mm ²	No	Yes		1/0 to 6 AWG 50 to 16mm ²	No	Yes
EPDB306	1.25 (31.8)	500 to 250 Kcmil 240 to 150mm ²	Yes	Yes	0.59 (15) top row, 1.2 (30.5) bottom row	2 to 14 AWG 35 to 2.5mm ²	Yes	Yes
		4/0 to 6 AWG 120 to 16mm ²	No	Yes		screws fully opened	N/A	Yes
						no wire in hole	No	N/A
EPDB512	1.15 (29.2) top row 1.4 (35.6) bottom row	300 Kcmil to 4/0 AWG 150 to 120mm ²	Yes	Yes	0.55 (14) top row, 1 (25.4) middle row, 1.22 (31) bottom row	4 to 14 AWG 25 to 2.5mm ²	Yes	Yes
		3/0 to 4 AWG 95 to 25mm ²	No	Yes				
		screws fully opened	N/A	No		screws fully opened	N/A	Yes
		no wire in hole	No	N/A		no wire in hole	Yes	N/A
EPDB602	1.25 (31.8)	350 Kcmil to 2/0 AWG 185 to 70mm ²	Yes	Yes	1.25 (31.8)	350 Kcmil to 2/0 AWG 185 to 70mm ²	Yes	Yes
		1/0 to 4 AWG 50 to 25 mm ²	No	Yes		1/0 to 4 AWG 50 to 25mm ²	No	Yes
		screws fully opened	N/A	No		screws fully opened	N/A	No
		no wire in hole	No	N/A		no wire in hole	No	N/A
EPDB702	1.25 (31.8)	500 to 350 Kcmil 240 to 185mm ²	Yes	Yes	1.25 (31.8)	500 to 350 Kcmil 240 to 185mm ²	Yes	Yes
		300 Kcmil to 6 AWG 150 to 16mm ²	No	Yes		300 Kcmil to 6 AWG 150 to 16mm ²	No	Yes
		screws fully opened	N/A	No		screws fully opened	N/A	No
		no wire in hole	No	N/A		no wire in hole	No	N/A

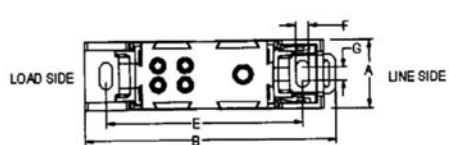
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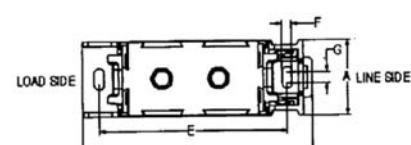
Dimensions in (mm)								
Part Number	Width	Length	Height	D	E	F	G	H
	A	B	C					
EPDB101	1.03(26.16)	3.372(94.8)	2.15(54.5)	3.55(90.17)	2.91(73.79)	0.2(5)	0.2(5)	N/A
EPDB104	1.03(26.16)	3.372(94.8)	2.15(54.5)	3.55(90.17)	2.91(73.79)	0.2(5)	0.2(5)	N/A
EPDB301	1.55(39.37)	4.67(118.5)	2.874(73)	4.48(113.67)	3.81(96.77)	0.2(5)	0.24(6)	N/A
EPDB306	1.55(39.37)	4.67(118.5)	2.95(74.93)	4.48(113.67)	3.81(96.77)	0.2(5)	0.24(6)	N/A
EPDB512	1.88(47.62)	4.67(118.5)	2.93(74.5)	4.48(113.67)	3.81(96.77)	0.2(5)	0.24(6)	N/A
EPDB602	2.38(60.45)	4.67(118.5)	2.60(66)	4.48(113.67)	3.81(96.77)	0.2(5)	0.24(6)	N/A
EPDB702	2.56(65.02)	4.67(118.5)	3.15(80)	4.48(113.67)	3.81(96.77)	0.2(5)	0.24(6)	46(1.81)



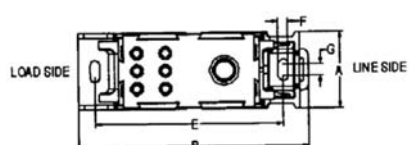
EPDB101



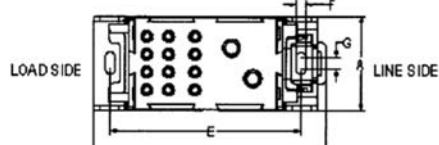
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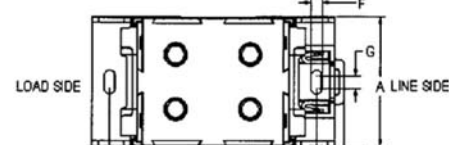
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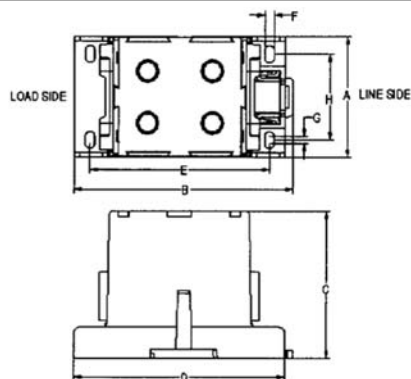
EPDB306



EPDB512



EPDB602

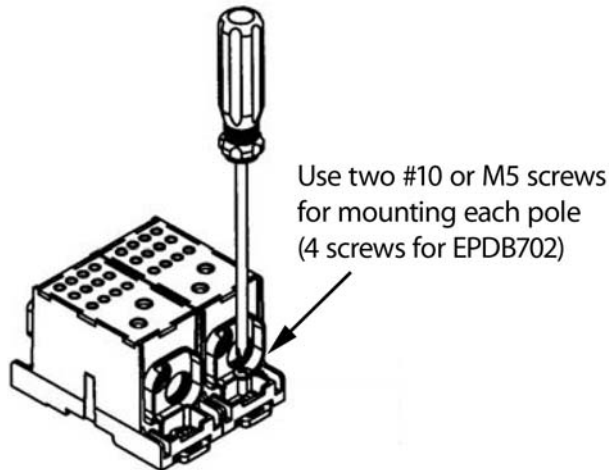


EPDB702

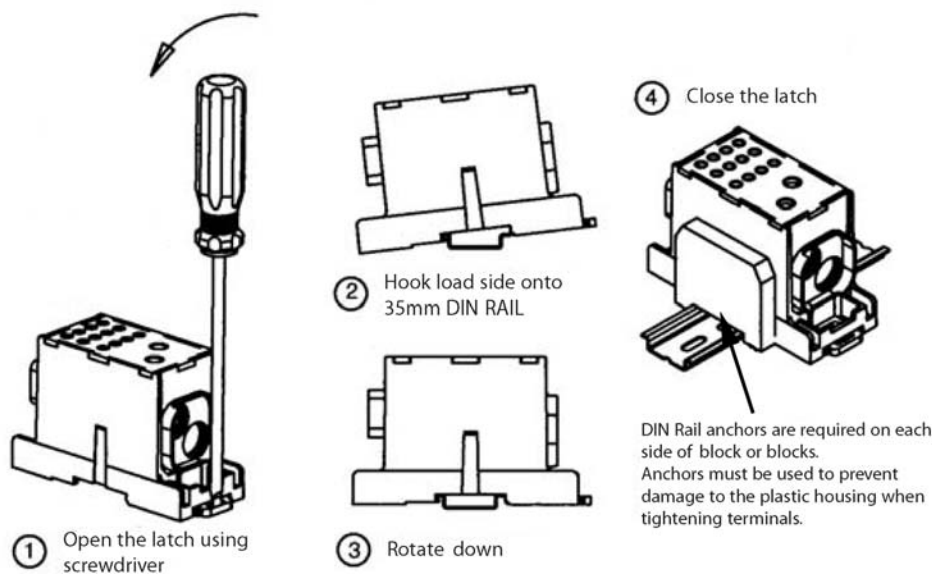
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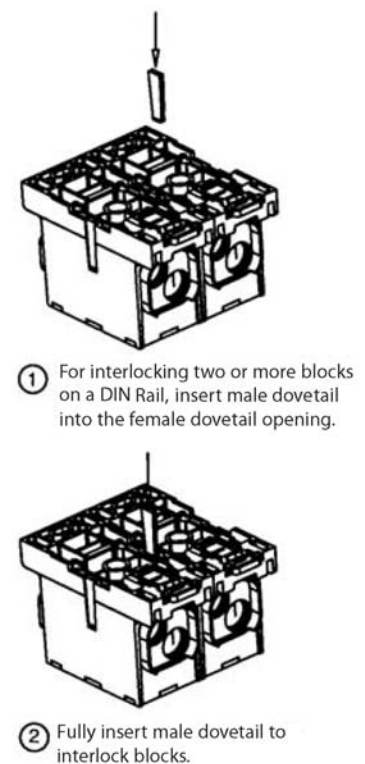
Panel Mounting - All Part Numbers



DIN Rail Mounting - EPDB101, 104, 301, 512 and 602 Only



Dovetails for DIN Rail Mounting



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