

Product Data Sheet



EPBCP45

Listed Power Distribution Block

200 Amps, 600 Volts (AC/DC)

1,000V AC/DC CE (IEC 60947-7-1)



Wire Range:

Line side: (1) 3/0 - #14 AWG (70 mm² - 2.5 mm²)

Load Side: (4) #2 - #14 AWG (25 mm² - 2.5 mm²)

Electrical Ratings:

- 200A copper wire, 155A aluminum wire (Based on NEC Table 310-16, 75°C columns)
- UL Listed at 600 Volts AC/DC per UL-1953
- UL 508A Feeder Circuit Terminal Spacing for up to 600 Volts
- CSA Certified at 600V AC/DC per CSA C22.2 No. 158. (Class-C, General Industrial)
- CE Rated Voltage (U_i): 1000 V AC/DC per IEC 60947-7-1
- Minimum enclosure size: 16 X 12 X 6
- Factory and Field Wiring
- See tables below for SCCR wire ranges.

Mechanical Ratings:

- Maximum insulator base temperature: 125°C (257°F) UL RTI
 - Flammability rating of insulator base: UL 94 V-0
 - Touch protection: IP-20 (IEC 60529) with following conditions: Restricted wire range. See "Wire Approvals" table below for wire ranges to achieve IP-20 rating.
- * Use outside these ratings needs to be judged in the end-use application.

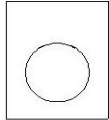
Materials:

- Connector: Copper, tin plated
- Insulator base: Glass filled polycarbonate (thermoplastic)
- Terminal set screws: Steel, nickel plated
- Connector mounting screw: Steel, zinc plated

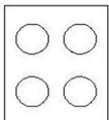
Agency Approvals:

- UL Listed, File No. QPQS.E309401, Investigated to UL 1953
- CSA Certified, CSA C22.2 No. 158, File No LR 19766 (Copper Wire Classes B & C only)
- CE compliant to IEC 60947-7-1
- RoHS Compliant

Wire Approval Specifications:

Line Side	Wire Size	Torque lbf-in (N-m)	Wires/ Terminal	IP-20 Protection	Class**
	3/0	180 (20.3)	1	Yes	B, C
	2/0	180 (20.3)	1	Yes	B, C, G, H, I
	1/0	180 (20.3)	1	Yes	B, C, G, H, I
	1	180 (20.3)	1	Yes	B, C, G, H, I
	2	180 (20.3)	1	Yes	B, C, G, H, I
	4	180 (20.3)	1 to 2 *	No	B, C, G, H, I
	6	180 (20.3)	1 to 2	No	B, C, G, H, I
	8	180 (20.3)	1 to 2	No	B, C, G, H, I
	10	50 (5.7)	1 to 2	No	B, C, G, H, I
	12	50 (5.7)	1 to 2	No	B, C, G, H, I
14	50 (5.7)	1 to 2	No	B, C, G, H, I	

- Copper Solid Wire range 10-14 AWG
- Wire strip length, line side tap – 7/8" (17.5 mm)

Load Side	Wire Size	Torque lbf-in (N-m)	Wires/ Terminal	IP-20 Protection	Class**
	2	50 (5.7)	1	Yes	B, C
	4	50 (5.7)	1	Yes	B, C, G, H, I
	6	50 (5.7)	1	Yes	B, C, G, H, I
	8	50 (5.7)	1 to 2	Yes	B, C, G, H, I
	10	40 (4.5)	1 to 2	Yes	B, C, G, H, I
	12	40 (4.5)	1 to 4	Yes	B, C, G, H, I
	14	40 (4.5)	1 to 4	Yes	B, C, G, H, I

- Copper Solid Wire range 10-14 AWG
- Wire strip length, load side tap – 11/16" (17.5 mm)

* Multiple wire rating for Classes B & C only.

** Listed in order of Low to High Strand count. Higher Strand counts give greater flexibility.

Short Circuit Current Ratings (Copper wire only):

Wire Type (Class)	Wire Range		Max Fuse Protection Req. Amp Rating / Class						SCCR RMS Sym. Amps 600V Max.
	Line	Load	<i>J</i>	<i>T</i>	<i>RK1</i>	<i>RK5</i>	<i>G</i>	<i>CC</i>	
B, C	3/0 - 8	2 - 8	225	225	200	60	60	30	100,000
	3/0 - 8	8 - 14	100	110	100	30	60	30	
G, H, I	2/0 - 8	4 - 8	225	225	200	60	60	30	
	2/0 - 8	8 - 12	100	110	100	30	60	30	

Accessories:

- Marking Cards: White plastic inserts to mark circuits. Printing available.
- Din Rail (35 x 7.5 mm, 2 m long, slotted): MN35-2
- End Bracket: MSK35

Allen Wrenches commercially available:

	5 mm	6 mm
S & K Tools	45955	45956
Snap-On Tools	FAML5E	FAML6E
MAC Tools	XDLS5MM	XDLS6MM
McMaster-Carr	8367A23	8367A24
Armstrong	38-709	38-711

Mounting - Panel mountable: #10 (5 mm) fastener, torque to 25-30 in. lbs. (2.3 - 3.4 N·m)

