

Product Data Sheet



EPBCD42

Listed Splicer Power Block
 200 Amps, 600 Volts (AC/DC)
 1,000V AC/DC CE (IEC 60947-7-1)



Copper wire only

Wire Range:

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

See tables below for SCCR wire ranges, flexible stranded and multiple wire approvals, and wire ranges to achieve IP-20 touch protection.

Electrical Ratings:

- 200A copper wire, (Based on NEC Table 310-16, 75°C columns)
- CE Rated Voltage (U_i): 1,000 V AC/DC per IEC 60947-7-1
- Material Group: IIIa
- Pollution Degree: 3
- UL/CSA Voltage Rating: 600 Volts AC/DC (UL 1953, Class C, User Group - General Industrial)
- Minimum enclosure size: 16 X 12 X 6
- Factory and Field Wiring

Short Circuit Current Ratings (Copper wire only):

Wire Class	Suitable Conductors (kcmil/AWG)		Overcurrent Protection Fuse Required						SCCR, RMS SYM Amps	Volts Max
			Class/Max Amp Rating							
	Line	Load	J	T	RK1	RK5	G	CC		
B, C	3/0 - 8	3/0 - 8	225	225	200	60	60	30	100,000	600
G, H, I	2/0 - 8	2/0 - 8	300	300	200	100	60	30	100,000	600

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.

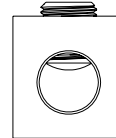
* Use outside these ratings needs to be judged in the end-use application.

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, UL 1953 Listed Power Distribution Block, File No. QPQS.E309401
- CSA Certified, CSA C22.2 No. 158, File No. LR19766 (Wire Classes B & C only)
- CE compliant to IEC 60947-7-1
- RoHS Compliant



Wire Approvals:

Line and Load Wire Approvals:

Copper Wire Stranding Classes - Number of Strands							
Wire Size	Torque	Solid	Class B	Class C	Class G	Class H	Class I
3/0 AWG	180 lbf-in		19	37			
2/0	180 lbf-in		19	37	~133	~259	~342
1/0	180 lbf-in		19	37	~133	~259	~266
1	180 lbf-in		19	37	~133	~259	~210
2	180 lbf-in		7	19	~49	~133	~161
4	180 lbf-in		7	19	~49	~133	~105
6	180 lbf-in		7	19	~49	~133	~63
8	180 lbf-in		7	19	~49	~133	~41
10	50 lbf-in		1	7	19	Not commercially available	~27
12	50 lbf-in	1	7	19	~19		
14	50 lbf-in	1	7	19	~19		

Copper Wire Stranding Classes - Number of Strands			
Wire Size	Torque	Class 1	Class 2
70	20.3 N·m		19
50	20.3 N·m		19
35	20.3 N·m		7
25	20.3 N·m		7
16	20.3 N·m		7
10	20.3 N·m		7
6	5.6 N·m	1	7
4	5.6 N·m	1	7
2.5	5.6 N·m	1	7

Cells highlighted in green indicate wire ranges to maintain IP-20 rating.

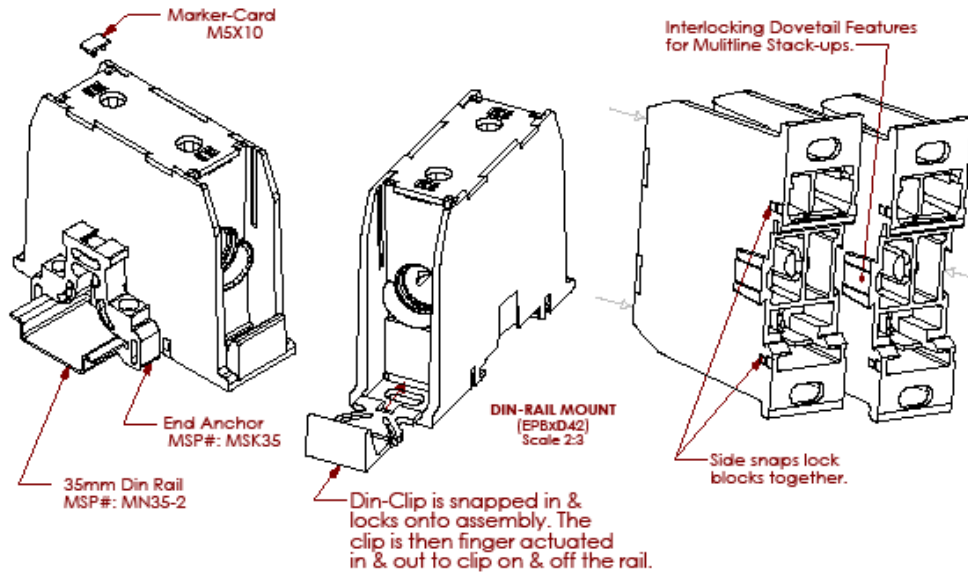
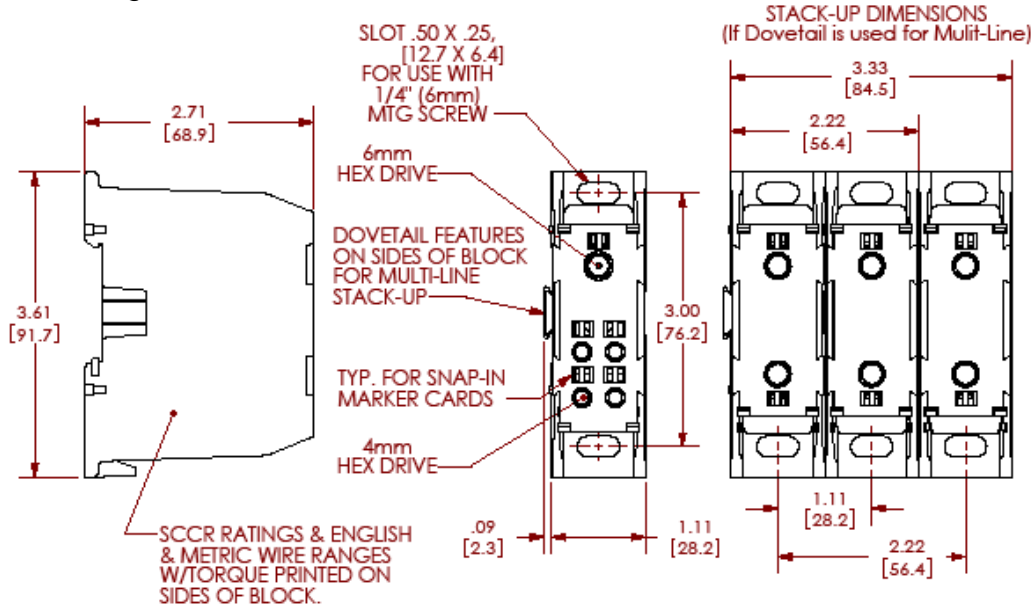
Quantity of strands for Classes G, H and I may vary by manufacturer.

- Wire strip length, line and load side tap – 7/8” (17.5 mm)
- 6 mm Allen hex drive for line and load side terminal screws. See “Accessories” for Allen wrenches that are recommended for this application.
- DIN rail mountable on 7.5 x 35 mm rail.
- Panel mountable: #10 (5 mm) fastener, torque to 25-30 in. lbs. (2.28-3.39 N·m).

Accessories:

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

S & K Tools	45956
Snap-On Tools	FAML6E
MAC Tools	XDLS6MM
McMaster Carr	8367A24
Armstrong	38-711



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