Product Data Sheet

EPBAD24

Listed, Enclosed Power Distribution Block
115 Amps, 600 Volts (AC/DC)

1,000V AC/DC CE (IEC 60947-7-1)
DIN Rail mountable on 7.5 x 35 mm rail.

Wire Range:
Line side: (1) 2 - #14 AWG (35- 2.5mm²)
Load Side: (4) #10 - #14 AWG (6 - 2.5mm²)

Electrical Ratings:
- 115A copper 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

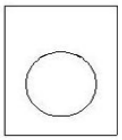
Mechanical Ratings:
- Maximum insulator base temperature: 125°C (257°F) UL RTI
- Flammability rating of insulator base and base plate: UL 94 V-0
- Touch protection: IP-20 (IEC 60529)

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

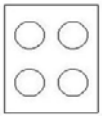
Materials:
- Connector: High conductivity aluminum, tin plated
- Insulator base and covers: glass filled polycarbonate (thermoplastic)
- Terminal set screws: Steel, Nickel-plated
- Connector mounting screw: Steel, zinc plated

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		Torque	Wires/ Terminal	IP-20 Protection	Class*
	2	50 lbf·in	1	Yes	B, C
	4	45 lbf·in	1	Yes	B, C, G, H, I
	6	45 lbf·in	1	Yes	B, C, G, H, I
	8	40 lbf·in	1	Yes	B, C, G, H, I
	10	35 lbf·in	1	Yes	B, C, G, H, I
	12	35 lbf·in	1	Yes	B, C, G, H, I
	14	35 lbf·in	1	Yes	B, C, G, H, I

- Wire strip length: 5/8” (16mm)

Load Side		Torque	Wires/ Terminal	IP-20 Protection	Class*
	10	7 lbf·in	1	Yes	B, C, G, H, I
	12	7 lbf·in	1	Yes	B, C, G, H, I
	14	7 lbf·in	1	Yes	B, C, G, H, I

- Wire strip length: Top Row 7/16” (11mm),
  Bot. Row 11/16” (18mm)

***** 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**	***J***	***T***	***RK1***	***RK5***	***G***	***CC***	
B - C	**2 - 10**	**10 - 14**	**125**	**200**	**100**	**30**	**60**	**30**	**65,000**
G - K	**4 - 10**	**10 - 14**							

Mounting:

- Panel mountable: #10 (5 mm) fastener, torque to 25-30 in. lbs. (2.3 - 3.4 N·m)
- Din-Rail mountable on 7.5 x 35 mm rail.

Notes:

• Accessories - For Marker-cards, Din-rail, end-anchors or compatible tools, consult factory.

• 5/64 Hex drive bits needed are longer than average.
Available drivers with part numbers are as follows:
  · Armstrong Ind. Hand Tools - #37-703 or #10-745
  · McMaster Carr - #5557A39 or #54875A46

• Individual parts can be snapped together for multi-line or mixed (splicer and/or distribution) configurations. Once snapped, the blocks stay securely together for use as traditional multi-line powerblocks.

• When mounting blocks on Din-Rail, it is recommended to individually mount power-blocks. Multi-line configurations become increasingly difficult to mount as the line length increases. End anchors (shown in the illustration below) also assist in positioning & terminating wires.