Product Data Sheet

EPBAD24

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

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

Agency Approvals:
- UL Listed, File No. QPQS.E309401, Investigated to UL 1953
- UL 508A Feeder Circuit Terminal Spacing for up to 600 Volts
- CSA Certified, CSA C22.2 No. 158, File No LR 19766, 600V Rating for Class 6228 01 – Use Groups A, B, C
- RoHS Compliant
- See tables below for SCCR wire ranges.

Electrical Ratings:
- 115A 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
- Rated Impulse Voltage (U_{imp}): 6,000V
- Material Group: IIIa
- Pollution Degree: 3
- UL/CSA Voltage Rating: 600 Volts AC/DC (UL 1059 Class C, User Group - General Industrial)
- Factory and Field Wiring

Mechanical Ratings:
- Maximum insulator base temperature: 125°C (257°F) UL RTI
- Storage and transportation temperature range: -35°C to 110°C (-31°F to 230°F)
- Touch protection: IP-20 (IEC 60529)
- Flammability rating of insulator base and base plate: UL 94 V-0

***** 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

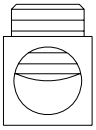
Short Circuit Current Ratings (Copper wire only):

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**							

*Minimum enclosure size – 16x12x4 inches

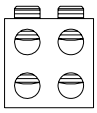
Wire Approvals:

Line Side Wire Approvals:



		Copper Wire Stranding Classes - Number of Strands						
Wire Size	Torque	Solid	Class B	Class C	Class G	Class H	Class I	Class K
2 AWG	50 in. lbs		7	19				
4	45 in. lbs		7	19	~ 49	~ 133	~ 105	~ 420
6	45 in. lbs		7	19	~ 49	~ 133	~ 63	~ 266
8	40 in. lbs		7	19	~ 49	~ 133	~ 41	~ 168
10	35 in. lbs	1	7	19			~ 27	~ 104
12	35 in. lbs	1	7	19			~ 19	~ 65
14	35 in. lbs	1	7	19			~ 19	~ 41

Load Side Wire Approvals:



		Copper Wire Stranding Classes - Number of Strands						
Wire Size	Torque	Solid	Class B	Class C	Class G	Class H	Class I	Class K
10 AWG	7 in. lbs	1	7	19			27	104
12	7 in. lbs	1	7	19			19	65
14	7 in. lbs	1	7	19			19	41

- Wire strip length, line side tap – 5/8” (16mm)
- Wire strip length, load side tap: Top row – 7/16” (11mm),
  Bottom row – 11/16” (18mm)
- Hex keys needed: #2 tap – 5/32” (4mm)
  #10-14 tap – 5/64” (2mm)

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

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.