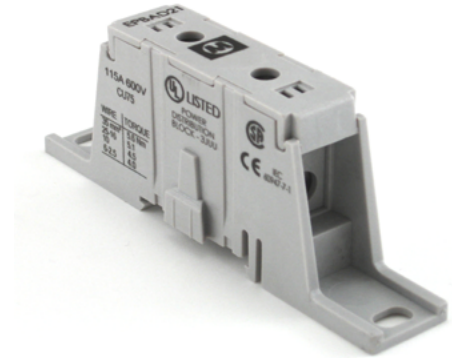


Power Distribution Block **EPBAD21**



Wire Range

- Line: (1) 2 - #14 AWG (35 - 2.5 mm²)
- Load: (1) 2 - #14 AWG (35 - 2.5 mm²)

Electrical Ratings

- 115 Amps
- 1000V per UL 1953 & CSA 22.2 No.158, class B & C requirements
- 1000 V AC/DC per IEC 60947-7-1 (CE)
- Short circuit current ratings (SCCR): See SCCR section below for specifications.
- CU7AL - 75°C connector terminal rating with copper or aluminum wire
- Touch protection: IP-20 (IEC 60529)
- Factory & Field Wiring

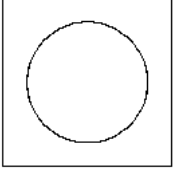
Agency Compliance

- UL Listed, Investigated to UL 1953, File QPQS.E309401
- CSA - certified to C22.2 No. 158, File No. LR19766 (wire classes B & C only)
- CE compliant to IEC 60947-7-1

Material Information

- Insulator base:
 - Thermoplastic
 - Flammability rating of insulator base UL94V0
 - Insulator base temperature rating: -40°C to 125°C (UL RTI)
- Connector: aluminum, tin plated
- Terminal set screws: steel, nickel plated
- Connector mounting screws: steel, zinc plated
- RoHS compliant

Termination Specifications

Line & Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) ¹
	2	5.6 N·m(50 lbf·in)	1	B, C
	4 - 6	5.1 N·m(45 lbf·in)	1	B, C, G, H, I (DLO)
	8	4.5 N·m(40 lbf·in)	1	B, C, G, H, I (DLO)
	10 - 14	4.0 N·m(35 lbf·in)	1	B, C, G, H, I (DLO)

- Wire strip length: 5/8 in. (16mm)
- Terminal screw drive: 5/32 hex
- IP-20 Protection: 2 - #14 AWG

¹ For information on copper stranded wire classes please reference:

<https://www.marathonsp.com/blog/flexible-stranded-wire.php>

Short Circuit Current Ratings (SCCR)

- The suitable conductor ranges are limited to the table values only for achieving the SCCR in excess of the default rating of 10,000A.
- Other conductor combinations within the "Terminal Specifications" noted are suitable for achieving a SCCR of 10,000A (the default rating of terminal blocks).
- Enclosure size – Investigated with a minimum 10X8X4 enclosure. Use in smaller enclosures is subject to end use evaluation.

SCCR With Fuses

Wire Class	Suitable Conductors		Max Overcurrent Protection Fuse Required Amp Rating / Class						SCCR RMS Sym. Amps 600V. Max
	Line	Load	J	T	RK1	RK5	G	CC	
B, C	2 - 14	2 - 14	175	225	100	60	60	30	100,000
G, H, I	4 - 14	4 - 14	175	225	100	60	60	30	100,000
(*)	2 - 14	2 - 14	None						10,000

* Any wire class evaluated (see terminal specification section)

SCCR With Circuit Breakers

Wire Class	Suitable Conductors		Overcurrent Protection Circuit Required				Voltage AC Max
	Line	Load	Manufacturer	Type	Max Amperage	SCCR RMS sym AMPs	
B, C	2 - 4	2 - 10	Square D	JDL32650	250	18kA	480
				JGL36250	250	35kA	
				JJL36250	250	65kA	
				JLL36250	250	65kA	
B,C	2 - 12	2 - 12	Square D	HDL36150	150	18kA	480
				HGL36150	150	35kA	
				HJL36150	150	65kA	
				HLL36150	150	65kA	
B,C	2 - 12	2 - 12	Square D	BDL36125	125	18kA	480
				BGL36125	125	35kA	
				BJL36125	125	65kA	

Installation & Accessories

- Mounting (Panel or DIN):
 - For use with #10 fastener.
 - Mounting torque to be determined in end use application not to exceed 30 lbf·in (3.4 N·m).
- Din-Rail mountable on 7.5 X 35 mm rail.
- 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.
- Marker cards:
 - White plastic inserts: EPB Marker Card
- Available drivers with part numbers are as follows:
 - Armstrong Ind. hand tools - #37-703 or #10-745
 - McMaster Carr - #5557A39 or #54875A46

Drawing

