

Product Data Sheet



PDL-112-600-3

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



Wire Range:

Line side: (1) 600kcmil - #2 AWG

Load Side: (12) #4 - #14 AWG

Electrical Ratings:

- 335A copper wire, 335A aluminum 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
- 600 Volts AC/DC (Service Equipment according to National Electrical Code, NFPA 70)
- Minimum enclosure size: 16 X 12 X 6
- Factory and Field Wiring

Short Circuit Current Ratings (Copper wire only):

| Suitable Conductors (kcmil/AWG) | | Overcurrent Protection Fuse Required Class/Max Amp Rating | | | | | | SCCR, RMS SYM Amps | Volts Max |
|------------------------------------|--------|--|-----|-----|-----|----|----|-----------------------|--------------|
| Line | Load | J | T | RK1 | RK5 | G | CC | | |
| 600 - 3/0 | 4 - 8 | 450 | 450 | 400 | 100 | 60 | 30 | 100,000 | 600 |
| 600 - 2 | 4 - 10 | 200 | 200 | 200 | 100 | 60 | 30 | 100,000 | 600 |

| Line | Load | Overcurrent Protection Circuit Breaker Required | | | SCCR, RMS SYM Amps | Volts Max |
|---------|--------|---|----------|---------|-----------------------|--------------|
| | | Mfr | Type | Max Amp | | |
| 2/0 - 2 | 4 - 10 | Square D | JDL36250 | 250 | 18,000 | 480 |
| | | Square D | JGL36250 | 250 | 35,000 | 480 |
| | | Square D | JLL36250 | 250 | 65,000 | 480 |
| | | Square D | JLL36250 | 250 | 65,000 | 480 |
| 600 - 2 | 4 | Allen Bradley | 14OU-K6 | 400 | 30,000 | 480 |
| 350 - 2 | 4 - 8 | Allen Bradley | 14OU-J6 | 250 | 50,000 | 480 |
| | | Allen Bradley | 14OU-J0 | 250 | 50,000 | 480 |

Mechanical Ratings:

- Maximum insulator base temperature: 125°C (257°F) UL RTI
- Maximum insulator base plate temperature: 130°C (266°F) UL RTI
- Flammability rating of insulator base: UL 94 V-0

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

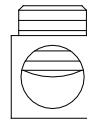
Materials:

- Connector: High conductivity aluminum, tin plated
- Insulator base: Glass filled polycarbonate (thermoplastic)
- Terminal set screws: Steel, nickel plated
- Connector mounting screw and roll pins: Steel, zinc plated
- Insulator base plate: Phenolic laminate

Agency Approvals:

- UL Listed, File No.E112158
- Investigated to UL 1953
- UL 508A Feeder Circuit Terminal Spacing for up to 600 Volts
- CSA Certified, CSA C22.2 No. 158, File No MC 249467
- 600V Rating for Class 6228 01 – Use Groups A, B, C
- CE compliant to IEC 60947-7-1
- RoHS Compliant

Wire Approvals:



Line Side Wire Approvals:

| Wire Size | Torque | | Copper Wire Stranding Classes - Number of Strands | | |
|-----------|--------|---------|---|---------|---------|
| | N.m | in. lbs | Solid | Class B | Class C |
| | | | | | |
| 600 kcmil | 42.3 | 375 | | 37 | 61 |
| 500 | 42.3 | 375 | | 37 | 61 |
| 400 | 42.3 | 375 | | 37 | 61 |
| 350 | 42.3 | 375 | | 37 | 61 |
| 300 | 42.3 | 375 | | 37 | 61 |
| 250 | 42.3 | 375 | | 37 | 61 |
| 4/0 | 42.3 | 375 | | 19 | 37 |
| 3/0 | 42.3 | 375 | | 19 | 37 |
| 2/0 | 42.3 | 375 | | 19 | 37 |
| 1/0 | 42.3 | 375 | | 19 | 37 |
| 1 | 42.3 | 375 | | 19 | 37 |
| 2 | 42.3 | 375 | | 7 | 19 |

Aluminum stranded wire range: 600kcmil – #2 AWG

Load Side Wire Approvals:



| Wire Size | Torque | | Copper Wire Stranding Classes - Number of Strands | | |
|-----------|--------|---------|---|----------|-----------|
| | N.m | In. lbs | Solid | Class B | Class C |
| | | | | | |
| 4 AWG | 4.0 | 35 | | 7 | 19 |
| 6 | 4.0 | 35 | | 7 | 19 |
| 8 | 4.0 | 35 | | 7 | 19 |
| 10 | 4.0 | 35 | 1 | (1-2)* 7 | (1-2)* 19 |
| 12 | 4.0 | 35 | 1 | (1-4)* 7 | (1-4)* 19 |
| 14 | 4.0 | 35 | 1 | (1-4)* 7 | (1-4)* 19 |

* Multiple conductor approvals for **LOAD** side only.

Aluminum stranded wire ranges: #4 – #14 AWG

- Wire strip length, line side tap – 1 9/16"
- Wire strip length, load side tap, top row – 1/2", middle row – 11/16", bottom row – 15/16"
- Panel mountable: #10 fastener, torque to 25-30 in. lbs.
- Hex keys needed: 600 kcmil tap – 1/2", #4 tap – 1/8"

Accessories:

- Marker Strips. MS-1-L (three required)

