

Product Data Sheet



PDH-19A-600-X

Replace "X" with 1, 2 or 3 for number of poles

Power Distribution Block

420 Amps, 600 Volts (AC/DC)

1,000V AC/DC CE (IEC 60947-7-1)

Wire Range:

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

Load Side: (3) 1/0 - #14 AWG and (6) #2 - 14

Electrical Ratings:

- 420A copper wire, 340A 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 (UL 1059 Class C, User Group - General Industrial)
- Factory and Field Wiring

Short Circuit Current Ratings (Copper wire only):

| Wire Class | 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 | | |
| B, C | 600 - 3/0 | 1/0 - 8 | 500 | 500 | 400 | 200 | 60 | 30 | 100,000 | 600 |
| B, C | 600 - 2 | 1/0 - 10 | 200 | 200 | 200 | 100 | 60 | 30 | 100,000 | 600 |
| G, H, I | 350 - 2 | 1 - 8 | 500 | 500 | 400 | 100 | 60 | 30 | 100,000 | 600 |
| G, H, I | 350 - 2 | 1 - 10 | 200 | 200 | 200 | 100 | 60 | 30 | 100,000 | 600 |

• Short Circuit Current Rating investigated in 16 x 12 x 6 enclosure. Use in smaller enclosure is subject to end-use evaluation.

Mechanical Ratings:

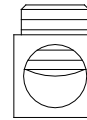
- Maximum insulator base and cover temperature: 125°C (257°F) UL RTI
- Flammability rating of insulator base and cover: UL 94 V-0
- * Use outside these ratings needs to be judged in the end-use application.

Materials:

- Connector: High conductivity aluminum, tin plated
- Insulator base: Glass filled polycarbonate (thermoplastic)
- Terminal set screws: Aluminum, tin plated, Steel, zinc plated and Steel, nickel plated
- Connector mounting screws: Steel, zinc plated
- Hinged cover: Glass filled polycarbonate (thermoplastic)

Agency Approvals:

- UL Recognized, UL 1059 Terminal Block Standard, File No. E84782
- CSA Certified, CSA C22.2 No. 158, File No. MC 249467 (Wire Classes B & C only)
- CE compliant to IEC 60947-7-1
- RoHS Compliant



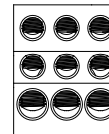
Wire Approvals:

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 |
| 600 kcmil | 375 in. lbs | | 37 | 61 | | | | |
| 500 | 375 in. lbs | | 37 | 61 | | | | |
| 400 | 375 in. lbs | | 37 | 61 | ~ 259 | ~ 427 | ~ 980 | ~ 3990 |
| 350 | 375 in. lbs | | 37 | 61 | ~ 259 | ~ 427 | ~ 882 | ~ 3458 |
| 300 | 375 in. lbs | | 37 | 61 | ~ 259 | ~ 427 | ~ 735 | ~ 2989 |
| 250 | 375 in. lbs | | 37 | 61 | ~ 259 | ~ 427 | ~ 637 | ~ 2499 |
| 4/0 | 375 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 532 | ~ 2107 |
| 3/0 | 375 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 418 | ~ 1666 |
| 2/0 | 375 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 342 | ~ 1323 |
| 1/0 | 375 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 266 | ~ 1064 |
| 1 | 375 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 210 | ~ 836 |
| 2 | 375 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 161 | ~ 665 |

Aluminum stranded wire range: 600kcmil – #2 AWG

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



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 |
| 1/0 AWG | 120 in. lbs | | 19 | 37 | | | | |
| 1 | 120 in. lbs | | 19 | 37 | ~ 133 | ~ 259 | ~ 210 | |
| 2 | 60 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 161 | ~ 665 |
| 4 | 60 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 105 | ~ 420 |
| 6 | 60 in. lbs | | 7 | 19 | ~ 49 | ~ 133 | ~ 63 | ~ 266 |
| 8 | 35 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 |

| 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 | | (1-2)* 7 | (1-2)* 19 | ~ 49 | ~ 133 | (1-2)* ~ 41 | (1-2)* ~ 168 |
| 10 | 35 in. lbs | 1 | (1-2)* 7 | (1-2)* 19 | | | (1-2)* ~ 27 | (1-2)* ~ 104 |
| 12 | 35 in. lbs | 1 | (1-4)* 7 | (1-4)* 19 | | | (1-2)* ~ 19 | (1-2)* ~ 65 |
| 14 | 35 in. lbs | 1 | (1-4)* 7 | (1-4)* 19 | | | (1-2)* ~ 19 | (1-2)* ~ 41 |

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

* Multiple conductor approvals for **LOAD** side only. (copper wire only)

Aluminum stranded wire ranges: 1/0 – 14, #2 – #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"
- Hex keys required : line side - 1/2", load side - 5/32" and 3/16"
- Panel mountable: #10 fastener, torque to 25-30 in. lbs

Accessories:

- Marker Strips. MS-X-L (Replace X with 1, 2, or 3 for no. of poles)

