

# Product Data Sheet



## PDH-14-2-X

Replace "X" with 1, 2, 3 or 4 for number of poles



### Power Distribution Block

115 Amps, 600 Volts (AC/DC)

800V AC/DC CE (IEC 60947-7-1)

#### Wire Range:

Line side: (1) #2 - #14 AWG

Load Side: (4) #10- #18 AWG

#### Electrical Ratings:

- 115A copper wire, 90A aluminum wire (Based on NEC Table 310-16, 75°C columns)
- CE Rated Voltage ( $U_i$ ): 800 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

#### 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

#### Mechanical Ratings:

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

#### Materials:

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

**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	2 - 6	10	200	200	200	100	60	30	100,000	600
B, C	2 - 10	10 - 14	150	150	100	30	60	30	100,000	600
G, H, I	4 - 10	10 - 14	150	150	100	30	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.

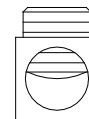
Line	Load	Overcurrent Protection Circuit Breaker Required			SCCR, RMS SYM Amps	Volts Max
		MFR	Type	Max Amp		
2 - 6	10	Square D	JDL36250	250	18,000	480
		Square D	JGL36250	250	35,000	480
		Square D	JJL36250	250	65,000	480
		Square D	JLL36250	250	65,000	480
8 - 10	14	Square D	JDL36250	250	18,000	480
		Square D	JGL36250	250	35,000	480
		Square D	JJL36250	250	65,000	480
		Square D	JLL36250	250	65,000	480
		Square D	HDL36100	100	18,000	480
		Square D	HGL36100	100	35,000	480
		Square D	HJL36100	100	65,000	480
		Square D	HLL36100	100	65,000	480

Line	Load	Overcurrent Protection Circuit Breaker Required			SCCR, RMS SYM Amps	Volts Max
		MFR	Type	Max Amp		
2 - 10	10 - 14	Allen Bradley	14OU-H3C3	125	25,000	480
		Allen Bradley	14OU-H6C3	125	25,000	480

Note: All Circuit Breaker Overcurrent Protection with B & C Wire Classes only

**Wire Approvals:**



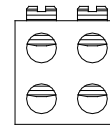
**Line Side Wire Approvals:**

Wire Size	Torque	Copper Wire Stranding Classes - Number of Strands						
		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

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

Aluminum stranded wire range: #2 – #12 AWG

## 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			(1-2)* 19	(1-2)* 41
16	7 in. lbs	1	7	19				(1-2)* 26
18	7 in. lbs	1	7	19				(1-2)* 16

~ 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 range: #10 – #18

- Wire strip length, line side tap – 1/2"
- Wire strip length, load side tap, top row – 3/8", bottom row – 5/8"
- Terminal Set Screws: slotted
- Panel mountable: #10 fastener, torque to 25-30 in. lbs.

### Accessories:

- Clear cover (screws provided): C-2-X (replace X with 1, 2, 3, or 4 for no. of poles)

