

## Product Data Sheet

# HVPB103

Add suffix "CH" for snap-on hinged cover  
Power Terminal Block

## 430 Amps 1500 Volts AC/DC

### Wire Range

- Line: (1) M10 x 35 mm stud
  - Suitable for listed lugs
  - Lugs must fit on M10 studs, 1.55" (39 mm) max width
- Load: (8) #4 -14 AWG (Suitable for #2 AWG, limited to 95A per copper wire only)

### Electrical Ratings

- 430 Amps
- Voltage:
  - 1500V per UL 1059 Class E & CSA 22.2 No.158, Class C requirements
  - 600V per UL 1059 Service & Industrial Class (A & C) requirements
  - 600V per CSA 22.2 No.158 Service & Industrial Class (A & E) requirements
- Short Circuit Current Rating (SCCR) of 10,000A (default for terminal blocks)
- CU9AL - 90°C connector terminal rating
- Factory & Field Wiring

### Agency Compliance

- UR - UL Recognized Terminal Block, Evaluated to UL 1059, File No.XCFR2.E62806
- cUR - UL Evaluated to CSA 22.2 No.158, File No.XCFR8.E62806

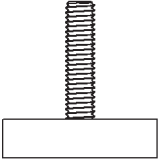
### Material Information

- Insulator base:
  - Thermoplastic
  - Flammability rating of insulator base UL94V0
  - Insulator base temperature rating: -40°C to 110°C (UL RTI)
- Connector - aluminum, tin plated
- Terminal screws - steel, nickel plated
- Terminal studs - steel, zinc plated
- Hardware - nuts, flat washer, split washer - steel, zinc plated
- RoHS compliant

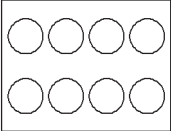
A Regal Brand

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## Termination Specifications

Line Side	Termination Type	Torque	Stud Length (mm/in)	Maximum Lug/Bar Width
	Listed lugs on M10 studs	21.7 N·m (192 lbf·in)	40 mm / 1.58"	39 mm / 1.55"

- For use with conductors prepared with listed connectors such as single hole compression/crimp lugs or listed ring, fork or spade terminals.
- Conductor size, ampacity, temperature rating and type are dictated by the ratings of the listed lugs utilized and applicable code requirements.

Load Side	Wire Size (CU Stranded)	Torque	Wires / Terminal	Wire Class (UL) <sup>1</sup>
	#4 - 6	5.1 N·m (45 lbf·in)	1	B, C, G, H, I (DLO)
	#8	4.5 N·m (40 lbf·in)	1-2	B, C, G, H, I (DLO)
	#10 - 14	4 N·m (35 lbf·in)	1-2	B, C, G, H, I (DLO)
	#12 - 14	4 N·m (35 lbf·in)	1-4	B, C, G, H, I (DLO)

- Aluminum wire range: #4-6 AWG
- Solid copper wire range: #10-14 AWG
- Wire strip length (load side):
  - Top row: .69 in. (17 mm)
  - Bottom row: 1.13 in. (29 mm)
- Terminals are suitable for #2 AWG copper stranded (B, C), but limited to 95A per wire, torque to 5.6 N·m (50 lbf·in)
- <sup>1</sup> For information on copper stranded wire classes please visit:

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

**Installation & Accessories**

- Mounting (Panel):
  - For use with #10 fastener with flat washer (max diameter 7/16”).
  - Torque mounting fastener to 25-30 lbf-in (2.8 - 3.4 N·m).
  
- Safety Guidelines:
  - Use specified hardware (washers & nuts).
  - Accessory cover (optional) is not intended to provide insulation for electrical spacings.
  - Stack lugs in decreasing width order. Ensure contact is maintained throughout the connection.
  
- Covers:
  - Hinge covers available upon request
  - Catalog Number: CH1331
  - Covers are black polycarbonate

**Drawing**

