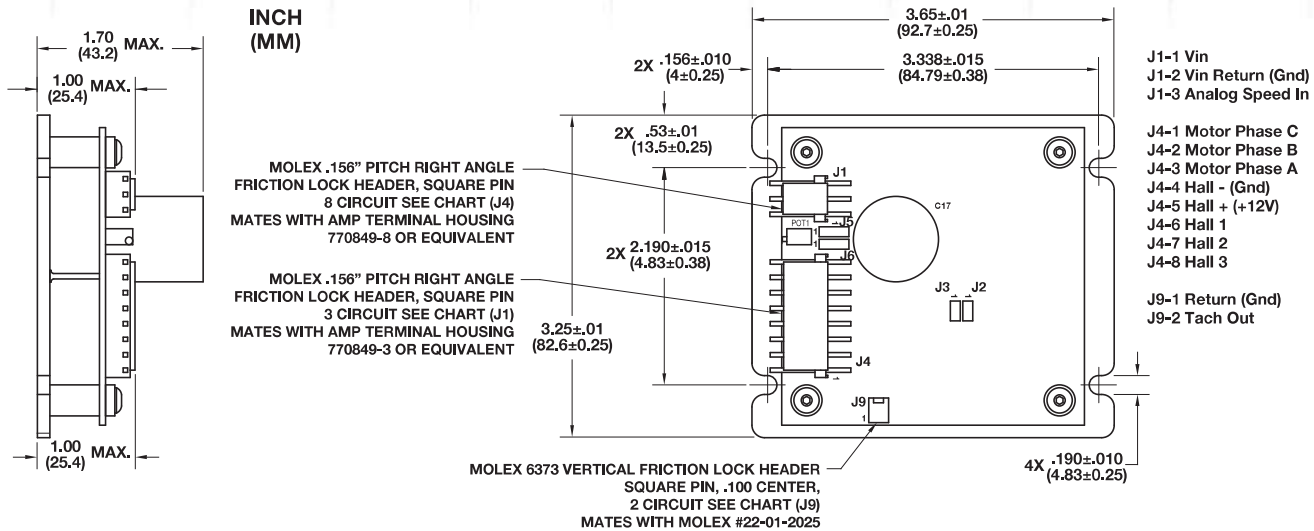


10 Amp BLDC Motor/Blower Controller



Controller Data	Motor/Blower Controller
	48133*
Maximum Continuous Current	10 A
Input Voltage Range	11-52 VDC
Controller PWM Frequency	25 kHz
Analog Speed Input	0-5 VDC
Electrical Hall Spacing	60° or 120°
Waveform	6-Step Trapezoidal
Current Limit Protection	Yes
Rotation	CW / CCW

*These part numbers are available through AMETEK Technical & Industrial Products distributors.

NOTES:

- **Temperature:** Operating: 0°C to 50°C, Storage Air: -40°C to 85°C.
- **Speed Control:** Electrical speed control is achieved by applying a 0 to 5 VDC signal on J1 Pin 3 with respect to J1 Pin 2. Mechanical speed control is achieved by adjusting the potentiometer when J6 is in position 1 to 2.
- **Current Control:** Trip point is at 10 Amp maximum.

Caution should be taken. Misplacement of jumper setting will destroy the control.

Jumper Settings:

J2-Motor Sensor Spacing: 120° electrical spacing with jumper connected (default).
60° electrical spacing with jumper disconnected.

J3-Rotations: Clockwise rotation with jumper connected (default).
Counter-clockwise rotation with jumper disconnected.
Do not change while motor is running or damage will occur.

J5-Input Voltage: Position 1-2 for 16-52 VDC (default).
Position 2-3 for 11-16 VDC.

J6-Speed Control: Position 1-2 for internal speed adjust, via on board potentiometer (default).
Position 2-3 for analog speed input, via 0-5 VDC signal applied to J1 pins 2 and 3.

J9: F out provides a 0-12 VDC square wave to monitor speed

$$F \text{ out (Hz)} = \left(\frac{\text{Motor RPM}}{120} \right) \left(\frac{\text{Motor}}{\text{Poles}} \right)$$

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions using AMETEK BLDC motor controllers. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Marketing and Sales.

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