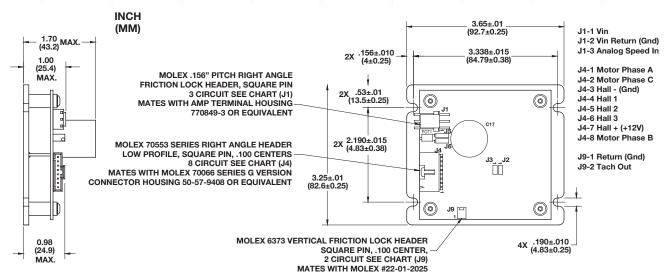


## **5 Amp BLDC Motor/Blower Controller**



Controller Data	Motor/Blower Contoller
	48132*
Maximum Continuous Current	5 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

<sup>\*</sup>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: 5 Amp RMS 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

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