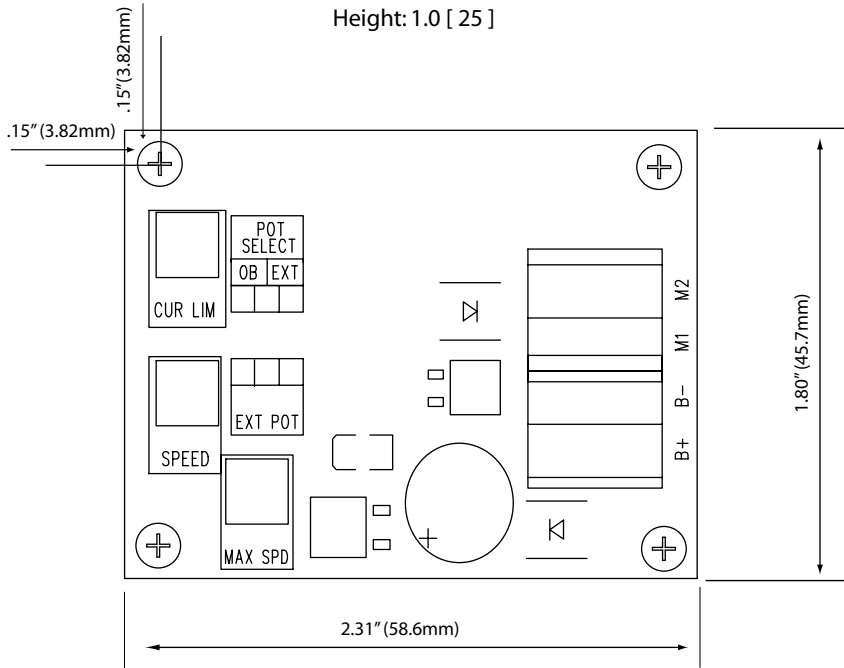


D I M E N S I O N S



ALL DIMENSIONS IN INCHES [MILLIMETERS]

S P E C I F I C A T I O N S

	DC6-12/24
DC Input Voltage [V]	10 - 32
DC Output Voltage [V]	0 - 29*
Continuous Current [A]	3
1 Minute Peak Current [A]	6
Current Limit Range [A]	0 - 6
Ambient Temperature [°C]	10 - 40

* Output Voltage range is equal to Input Voltage - 1VDC. The 1VDC drop is the result of having a reverse polarity protection diode. This diode can be removed for OEM's who do not need reverse polarity protection.

M I N A R I K D R I V E S

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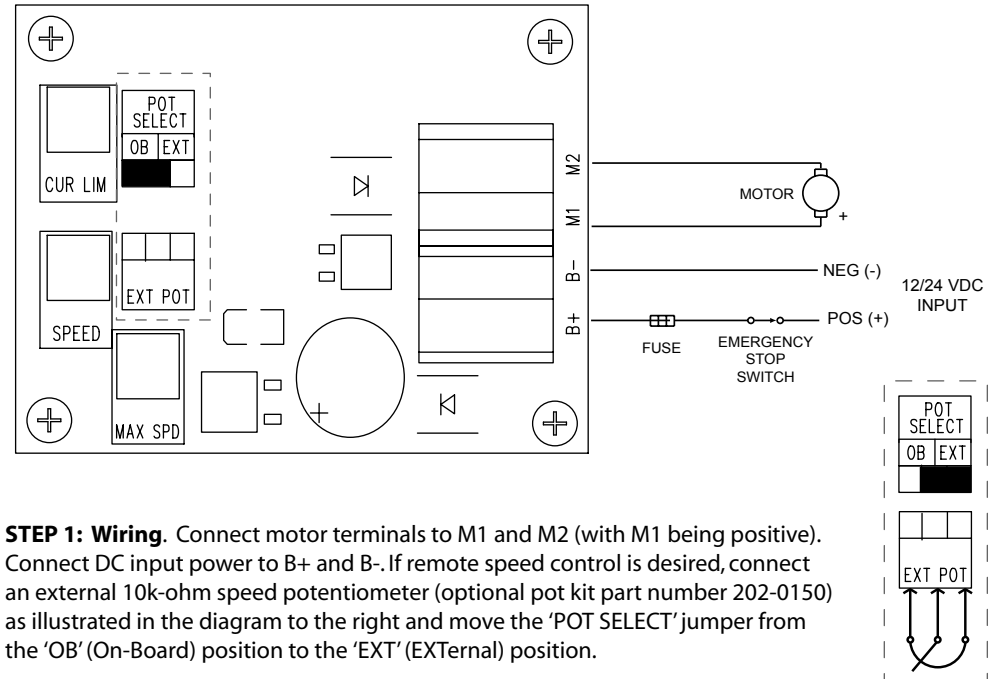


DC6-12/24

Low Voltage DC Drives

Q U I C K S T A R T G U I D E

C O N N E C T I O N S



STEP 1: Wiring. Connect motor terminals to M1 and M2 (with M1 being positive). Connect DC input power to B+ and B-. If remote speed control is desired, connect an external 10k-ohm speed potentiometer (optional pot kit part number 202-0150) as illustrated in the diagram to the right and move the 'POT SELECT' jumper from the 'OB' (On-Board) position to the 'EXT' (EXTernal) position.

STEP 2: Basic Operation. The MAX SPD trim potentiometer adjusts the upper limit of the voltage range that the on-board SPEED trim potentiometer (or the external speed potentiometer connected to the EXT POT header) can command. This potentiometer has the ability to limit the maximum permissible motor voltage from 10 to 29 VDC when an external speed pot is NOT connected and from 7 to 29 VDC when an external speed pot is connected.

The SPEED trim potentiometer adjusts the motor voltage within the range specified by the MAX SPD trim potentiometer. The SPEED trim potentiometer can adjust the motor voltage from 0 (fully CCW) to the maximum voltage specified by the MAX SPD trim potentiometer (fully CW).

An external speed potentiometer can be used in lieu of the on-board SPEED potentiometer. When the 'POT SELECT' jumper is in the 'EXT' position the on-board SPEED potentiometer is overridden

STEP 3: Current Limit Calibration. Remove DC input power to B+ and B-. Connect DC ammeter in series with the motor armature. Set SPEED trim pot to full CW. Set CUR LIM trim pot to full CCW. Lock motor shaft or apply a heavy load to the motor. Apply input power to B+ and B-. Slowly adjust CUR LIM trim pot clockwise until the armature current is 150% of motor rated armature current. Power down and remove stall or heavy load and DC ammeter from motor. This calibration is pre-calibrated by Minarik Drives for a 6 Amp output. Custom calibrations can be supplied to OEMs.