

MOUNTING

The PN483 case has 0.475 inch (12 mm) conduit holes at the bottom of the case. The units may be vertically wall mounted or horizontally bench mounted using the four 0.19 inch (5 mm) slotted holes on the attached heatsink.

1. Install the mounting screws.
2. For access to the terminal strip, turn the slotted screw on the front cover counterclockwise until it is free from the case. The right side of the cover is hinged to the case. Pull the slotted screw to open the case.
3. Carefully remove the conduit knockouts by tapping them into the case and twisting them off with pliers.
4. Install the conduit hardware through the 0.88 inch (22 mm) knockout holes. Connect external wiring to the terminal block (TB501).
5. Grasp the slotted screw and tilt the front cover back into place. Avoid pinching any wires between the front cover and the case.
6. Turn the slotted screw clockwise until tight to secure the front cover.
7. Set the POWER switch to the OFF position before applying the AC line voltage.

MOTOR CONNECTIONS

The PN483 supplies motor voltage from A1 and A2 terminals. It is assumed that when A1 is positive with respect to A2, the motor will rotate clockwise (CW) while looking at the output shaft protruding from the front of the motor. If this is opposite of the desired rotation, reverse the wiring of A1 and A2.

POWER INPUT CONNECTIONS

Connect the AC line power leads to TB501 terminals L1 and L2 as shown in the wiring diagram.

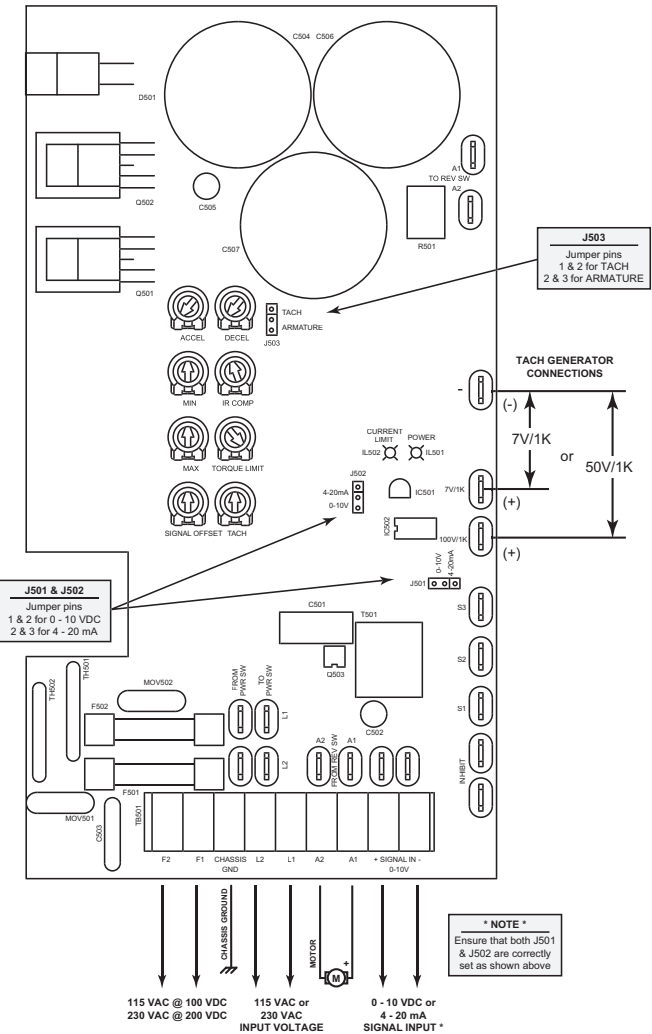
VOLTAGE or CURRENT FOLLOWER

The PN483 can be configured to follow a grounded (non-isolated) voltage or current signal. To configure the drive to follow a voltage or current signal, connect the signal leads to the + Signal In and - Signal In terminals on TB501. Jumper pins 1 & 2 for 0 - 10 VDC & 3 for 4 - 20 mA on J501 & J502 for 0 - 10 VDC signal input. Jumper pins 2 & 3 on J501 & J502 for 4 - 20 mA.

TACH GENERATOR (TACH)

Calibrate the TACH setting only when a tachogenerator is used. The TACH setting, like the IR COMP setting determines the degree to which motor speed is held constant. To calibrate the TACH trimpot:

1. Connect the tachogenerator to the 7V/1K or 50V/1K and (-) terminals. The polarity is positive (+) to 7V/1K or 50V/1K terminal and negative (-) to the (-) terminal.
2. Set the bottom jumpers on J503 for armature feedback.
3. Set the speed adjust potentiometer to full CW. Measure the armature voltage across A1 and A2 using a voltmeter.



4. Set the speed adjust potentiometer to 0 (zero speed).
5. Set the top jumpers on J503 for tachogenerator feedback.
6. Set the IR COMP trimpot to approximately 11 o'clock.
7. Set the TACH trimpot to full CW.
8. Set the speed adjust potentiometer to full CW.
9. Adjust the TACH trimpot until the armature voltage is the same value as the voltage measured in step 3.

Check that the tachogenerator is properly calibrated. The motor should run at the same speed when J503 is set to either armature or tachogenerator feedback.