

INDICATOR STATUS

INPUT PWR LED turns green when the Universal Input has been connected and power is applied.
LINE LED turns green when the Lines have been connected and power is applied (input power is also required).

STATUS LED turns green when the controller is in a run state. If the LED is flashing orange, the controller has a Warning Alarm. If the LED is red, there is an Inhibit Alarm. Note: The LED will be off if there are no alarms but the controller is not in a "Run" state.



Standard



Modbus RTU
(RS 485)



Modbus TCP
(Ethernet)
EtherNet/IP
PROFINET



DeviceNet

TROUBLESHOOTING

Warning Alarm

The controller will typically operate depending on the alarm.
STATUS LED is flashing ORANGE
An example of this is CURRENT LIMIT or VOLTAGE LIMIT.

The display will show:

*** WARNING ALARM *
VOLTAGE LIMIT**

This warning will not let the controller exceed the preset limit.

Inhibit Alarm

The controller will shut down with an alarm present.
STATUS LED is RED
An example of this is AC LINE SYNC PLL.

The display will show:

*** INHIBIT ALARM *
AC LINE SYNC PLL**

This warning says that line voltage is not present or too low for the controller to operate

If alarms are present, check connections and controller settings. This guide has minimal troubleshooting procedures, check the user manual troubleshooting section for more information.



COMPACT FUSION:

THREE PHASE, 2-LEG, FUSED PASS-THROUGH

QUICK INSTALL GUIDE

OPERATING SEQUENCE

1. Install the controller in desired location with appropriate clearance as shown in the Panel Layout section.
2. Make connections as shown in the Wiring Diagram section.
 - a. Line
 - b. Load
 - c. Ref
 - d. Ground
 - e. Universal Input Power (100-240 Vac)
3. Make communication connections as shown in the Connectors section.
 - a. Command Connector
 - b. Relay Connector (Optional)
 - c. Auxiliary I/O Connector (Optional)
4. Apply Power
 - a. Universal Input Power (100 - 240 Vac)
 - b. Line (24 - 600 Vac)
5. Place the controller in Run mode via pin 9 as shown in the Connectors section.
6. Check LEDs and Display as shown in the Indicators Status section.
 - a. INPUT PWR - green when control power present
 - b. LINE - green when input power and line power present
 - c. STATUS - green when operating
 - d. Display - Alarms will display if present and status LED will be red or flashing orange
7. Apply command signal to adjust setpoint / output



WARNING: Disconnect all high voltage before attempting to wire. Wire in accordance with local codes.

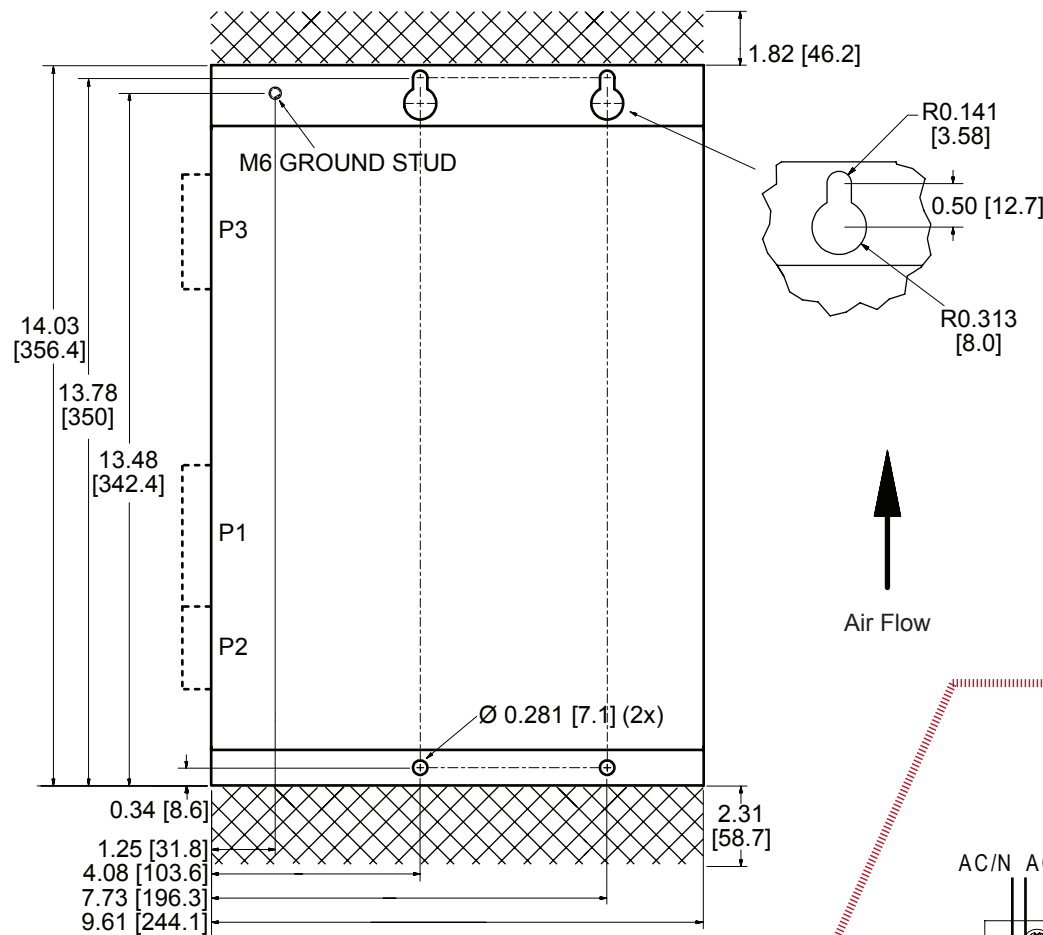
If alarms are present, check connections and controller settings. This guide has minimal troubleshooting procedures. Please check the user manual troubleshooting section for more information.

CONTACT INFORMATION

TEL: (952) 474-6200 | (800) 765-2799
FAX: (952) 474-6070 | www.ccipower.com
8077 Century Blvd, Chanhassen, MN 55317, USA



PANEL LAYOUT



Dimensions:
Inches [mm]



Recommended mounting:
Mount 10 - 50 Amp
controller on vertical
surface with display upright.

All other controllers may be
mounted vertically (display
upright) or horizontally.

Use 1/4 - 20 or M6 bolts with
flat and lock washer.

Air Flow

WIRING DIAGRAM

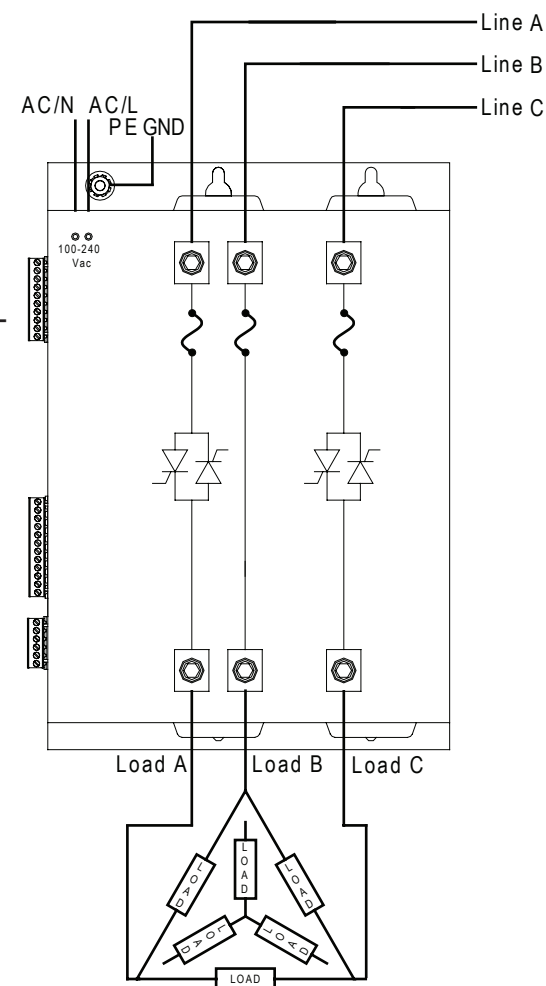
Ground must be connected for
proper operation.

See manual for recommended
fusing.

Auxiliary I/O 10 Pin
Connector (Optional -
See Manual)

P1: Command
Connector
Figure 1 & 2

P2: Relay Connector
Figure 3



KEYPAD INTERFACE



**Examples of Adjustable
Parameters:**
Current Limit
Digital Setpoint
Feedback type
(See full list in User Manual)

Use the and buttons to navigate between parameters.

On user-adjustable parameters a dot will precede
the parameter. (As shown with Current Limit.)

• Current Limit
140.0

To edit the value press The dot will change to
an arrow as shown.

↵ Current Limit
140.0

and will adjust values up or down. When the desired value is
reached, press the green button to accept.

CONNECTORS

FRAME SIZE	LINE & LOAD LUGS	WIRE ACCEPTANCE (AWG)
10-80 A	Slotted Screw	14 - 2
100-160 A	5/16 Hex Drive [8]	6 - 250 MCM

RECOMMENDED TIGHTENING TORQUE FOR LINE / LOAD CONNECTORS		
WIRE SIZE (AWG)	SCREW	HEX DRIVE
14 - 10	35 IN-LBS	75 IN-LBS
8	40 IN-LBS	75 IN-LBS
6 - 4	45 IN-LBS	110 IN-LBS
2 - 1	50 IN-LBS	150 IN-LBS
1/0 - 2/0	50 IN-LBS	180 IN-LBS
3/0 - 4/0	-	250 IN-LBS
250 MCM	-	325 IN-LBS

RECOMMENDED TIGHTENING TORQUE FOR UNIVERSAL INPUT 100-240 VAC, 50/60 Hz	
WIRE SIZE (AWG)	TORQUE
12 - 18 GA	5.0 IN-LBS

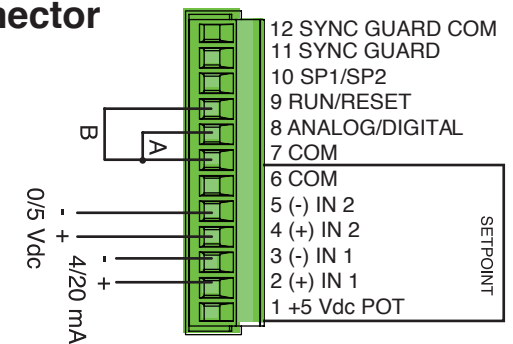
RECOMMENDED TIGHTENING TORQUE FOR GREEN CONNECTORS:	
WIRE SIZE (AWG)	TORQUE
12 - 26 GA	5.0 IN-LBS

For Auxiliary I/O Connector see manual.

P1 Command Connector

A: Connection A sets the
controller for a digital setpoint

B: Connection B places the
controller in Run mode*

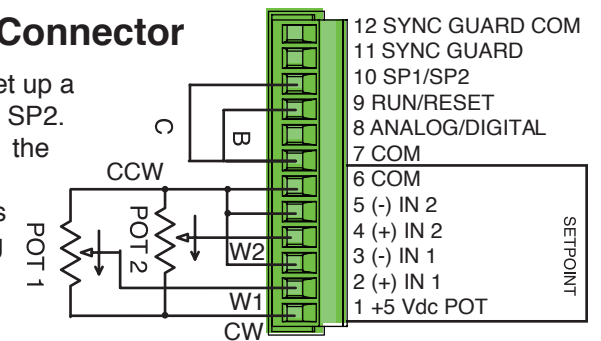


P1 Command Connector

Demonstrates how to set up a
POT input into SP1 and SP2.

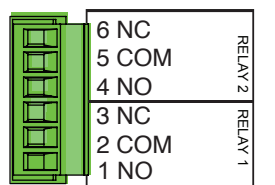
B: Connection B places the
controller in Run mode*

C: Connection C selects
setpoint 2 as the analog
command.



P2 Relay Connector

Depicts a labeled relay connector.
No connections required.



*Run/Reset has open or closed logic to place the controller in Run mode. The default value is closed. This correlates to
connection B in Figure 1. With closed logic selected connection B must be connected to place the controller in run mode.
Similarly, with open logic selected, remove connection B to place the controller in run mode.