

IC693PWR330

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Series 90-30

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Table 4-5. Specifications for IC693PWR330 High Capacity AC/DC Input Power Supply

Nominal Rated Voltage	120/240 VAC or 125 VDC
Input Voltage Range	
AC	85 to 264 VAC
DC	100 to 300 VDC
Input Power (Maximum with Full Load)	100 VA with VAC Input 50 W with VDC Input
Inrush Current	4A peak, 250 ms maximum
Output Power	5 VDC: 30 watts maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum <i>NOTE: 30 watts maximum total (all three outputs)</i>
Output Voltage	5 VDC: 5.0 VDC to 5.2 VDC (5.1 VDC nominal) 24 VDC Relay: 24 to 28 VDC 24 VDC Isolated: 21.5 VDC to 28 VDC
Protective Limits	
Overvoltage:	5 VDC output: 6.4 to 7 V
Overcurrent:	5 VDC output: 7 A maximum
Ride-Through Time:	20 ms minimum

Field Wiring Connections for the AC/DC Input Power Supplies

The two AC/DC input power supplies have six terminals for user connections. These connections are described below.

AC Power Source Connections

The Hot, Neutral, and Ground wires from the 120 VAC power source or L1, L2, and Ground wires from the 240 VAC power source connect to the system through the top three terminals of the terminal strip on the front of the power supply.

DC Power Source Connections

Connect the + and – wires from the 125 VDC (nominal) power source to the top two terminals on the terminal connector. These connections are not polarity-sensitive on an AC/DC input power supply; however, for systems with more than one baseplate, the input wiring polarity must be consistent (see the section “DC Power Source Connections” in Chapter 2 for details on this). NOTE: The DC Input-only type supplies, which are discussed later in this chapter, are polarity sensitive.

Input Overvoltage Protection Devices

This information applies to all Series 90-30 power supplies that have six-terminal boards. The overvoltage protection devices for this power supply are connected internally to pin 4 on the user terminal strip. This pin is normally connected to frame ground (pin 3) with the supplied jumper strap which is installed at the factory. If overvoltage protection is not required *or* is supplied upstream, this feature can be disabled by removing the jumper strap from pins 3 and 4.

If you want to Hi-pot test this supply, overvoltage protection *must be disabled* during the test by removing the terminal strip jumper strap. Re-enable overvoltage protection after testing by reinstalling the strap.

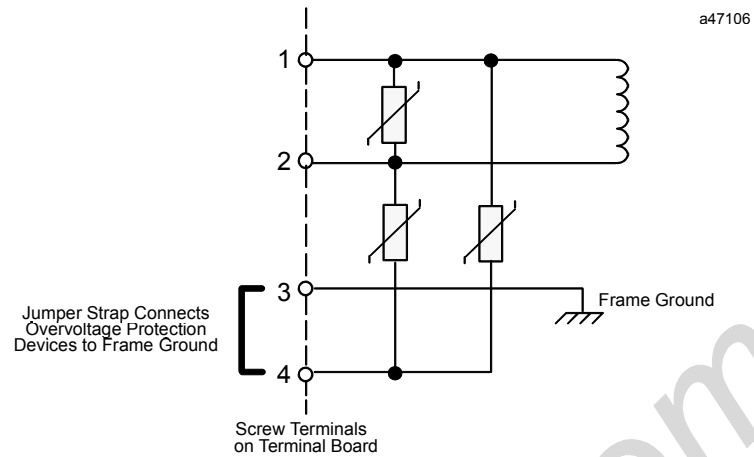


Figure 4-3. Overvoltage Protection Devices and Jumper Strap

Isolated 24 VDC Supply Output Connections

The bottom two terminals of the power supply terminal strip provide connections to the Isolated +24 volt DC output which can be used to provide power for external circuits (within power limitations of the supply).

Caution

If the Isolated 24 VDC supply is overloaded or shorted, the Programmable Logic Controller will stop operation.