GE Fanuc IC695PSD040

http://www.pdfsupply.com/automation/ge-fanuc/rx3i-pacsystem/IC695PSD040

Rx3i PacSystem

RX3i 24VDC power supply, 40 watts. IC695P IC695PS IC695PSD

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Power Supply, 24 VDC, 40 Watt: IC695PSD040

Power Supply IC695PSD040 is a 40-Watt supply that operates from an input voltage source in the range of 18 VDC to 30 VDC.

- +5.1 VDC output
- +24 VDC relay output that can be used to power circuits on Output Relay modules
- +3.3 VDC. This output is used internally by RX3i modules with IC695 catalog numbers

Caution

Only one IC695PSD040 can be installed in a PACSystems RX3i (IC695 catalog number) Universal Backplane. This Power supply cannot be used with other RX3i power supplies in redundant or increased capacity modes. Power Supply version IC695PSD040C or before may cause equipment damage if inadvertently installed in the same backplane as another RX3i power supply.

It occupies one slot. If the number of modules required exceeds the capacity of the Power Supply, the additional modules must be installed in Expansion or Remote backplanes.

The Power Supply indicates when an internal fault occurs so the CPU can detect loss of power or log the appropriate fault code.

LEDs

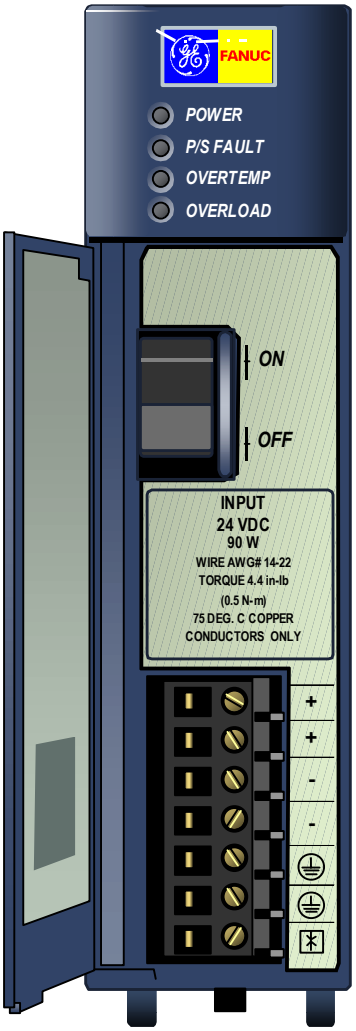
Four LEDs on the Power Supply indicate:

- Power (Green/Amber). When this LED is green, it indicates power is being supplied to the backplane. When this LED is amber, power is applied to the Power Supply but the Power Supply switch is off.
- P/S Fault (Red). When this LED is lit, it indicates the Power Supply has failed and is no longer supplying sufficient voltage to the backplane.
- Over Temperature (Amber). When this LED is lit, it indicates the Power Supply is near or exceeding its maximum operating temperature.
- Overload (Amber). When this LED is lit, it indicates the Power Supply is near or exceeding its maximum output capability on at least one of its outputs.

If the red P/S FAULT LED is lit, the Power Supply has failed and is no longer supplying sufficient voltage to the backplane .

The amber OVERTEMP and OVERLOAD LEDs light to warn of high temperature or high load conditions.

The CPU Fault Table shows a fault if any Overtemperature, Overload, or P/S Fault occurs.



On/Off Switch

The ON/OFF switch is located behind the door on the front of the module. The switch controls the operation of the outputs of the supply. It does NOT interrupt line power. A projecting tab next to the switch helps prevent accidentally turning it on or off.

Wiring Terminals

Terminals for +24V and –24V power, ground, and MOV disconnect accept individual 14 to 22AWG wires.

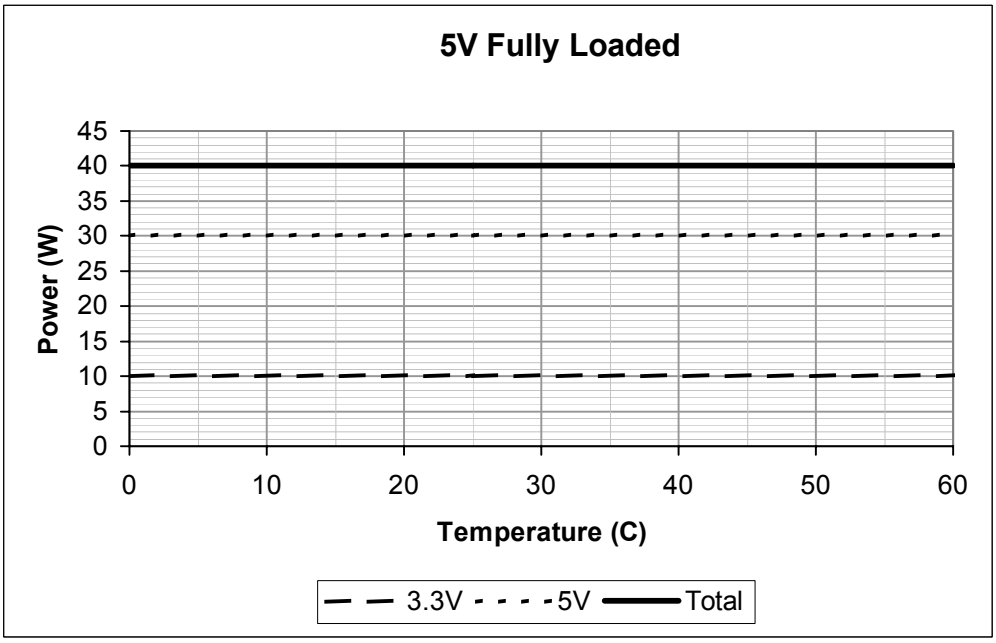
Specifications: IC695PSD040

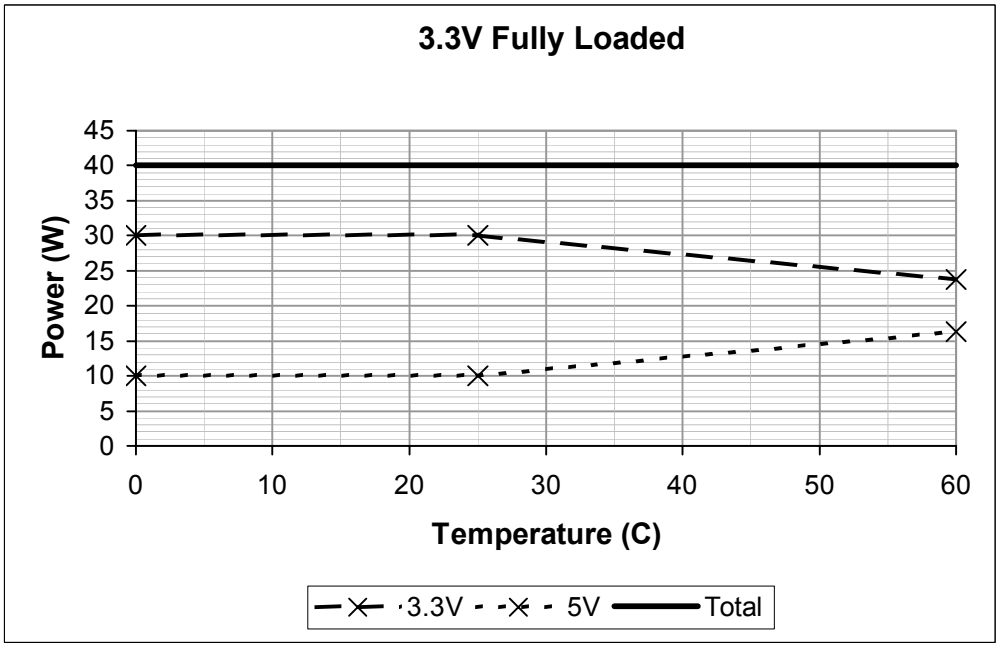
Nominal Rated Voltage **Input Voltage Range** **Start** **Run**	24 VDC 18 to 30 VDC 12 to 30 VDC
Input Power **Inrush Current**	60 Watts maximum at full load 4 Amps, 100 milliseconds maximum *
Output Power	40 Watts maximum total of both outputs. 5.1 VDC = 30 Watts maximum 3.3 VDC = 30 Watts maximum Maximum output power depends on ambient temperature, as shown.
Output Voltage	5.1 VDC: 5.0 VDC to 5.2 VDC (5.1 VDC nominal) 3.3 VDC: 3.1 VDC to 3.5 VDC (3.3 VDC nominal)
Output Current	5.1 VDC: 0 to 6 Amps 3.3 VDC: 0 to 9 Amps
Isolation	NONE
Ripple (all outputs)	50 mV
Noise (all outputs)	50 mV
Ride-through time	10 ms This is the length of time the Power Supply maintains valid outputs if the power source is interrupted. If this Power Supply is used with IC694 and IC693 modules that have relay outputs, note that dropouts longer than 10ms will cause dropouts on the modules.
Wiring Terminals	Each terminal accepts one 14 AWG to 18 AWG wire.
Terminal Current	6 Amps
Number of Daisy-Chained PSD040 Supplies	Up to 2

* The Inrush Current specification is given as a guide for sizing the external power source for the IC695PSD040. Peak inrush current may be higher for shorter durations.

Thermal Deratings: PSD040

The maximum output power for Power Supply PSD040 depends on the ambient temperature, as shown below. Full output power is available up to at least 40°C (89.6°F).





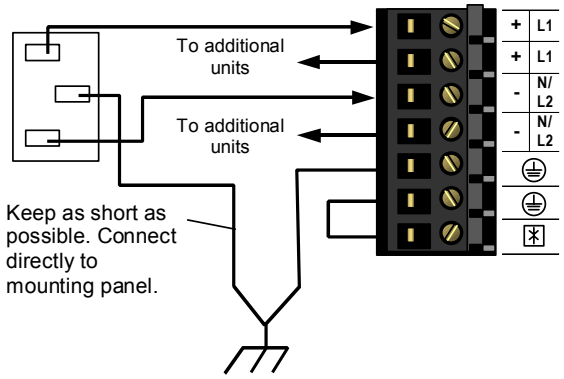
Overcurrent Protection

The 5.1 VDC output is electronically limited to 7 Amps. The 3.3 VDC output is limited to 10 Amps. If an overload (including short circuits) occurs, it is sensed internally and the Power Supply shuts down. The Power Supply continually tries to restart until the overload condition is removed. An internal fuse in the input line is provided as a backup. The Power Supply usually shuts down before the fuse blows. The fuse also protects against internal supply faults. The CPU Fault Table shows a fault if any Overtemperature, Overload, or P/S Fault occurs. There is no additional indication if the Power Supply fuse blows.

Field Wiring: IC695PSD040

Power Source and Ground Connections

The wires from the power source and ground connect to the terminals on the Power Supply as shown at right. Each terminal accepts one AWG 14 to AWG 22 wire.



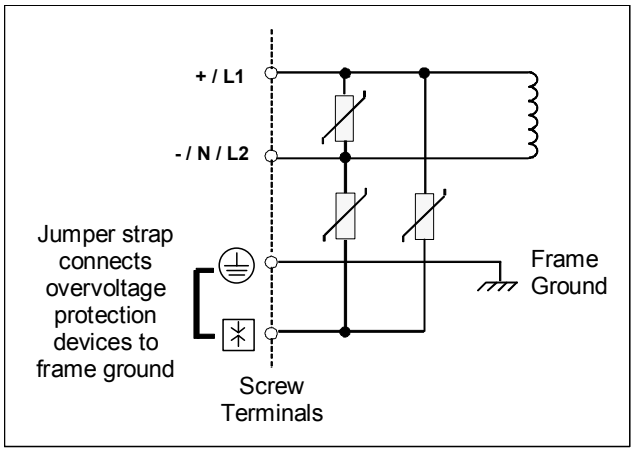
Warning

If the same external DC power source is used to provide power to two or more power supplies in the system, connection polarity must be identical at each RX3i power supply. A resulting difference in potential can injure personnel or cause damage to equipment. Also, each backplane must be connected to a common system ground.

Input Overvoltage Protection

The bottom terminal is normally connected to frame ground with a user-installed jumper as shown at lower right. If overvoltage protection is not required or is supplied upstream, no jumper is required.

To Hi-pot test this supply, overvoltage protection must be disabled during the test by removing the jumper. Re-enable overvoltage protection after testing by reinstalling the jumper.



Warning

This power supply is not isolated and is therefore not compatible with floating or positive grounded systems.