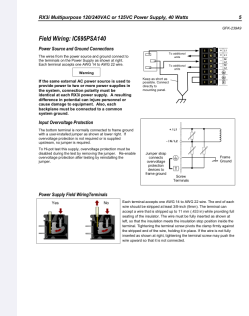


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

IC695PSA140E

Multipurpose AC/DC Power Supply



PRODUCT	IC695PSA140E
FAMILY	PACSystems RX3i
FUNCTION	Multipurpose AC/DC Power Supply
SOURCE	GE Fanuc GFK-2399A, RX3i multipurpose 40-watt AC/DC power supply

01 OFFICIAL MOUNTING AND WIRING

- Check the total and per-rail backplane load against the supply ratings and temperature derating before selecting the number of supplies.
- Connect the supply input and protective grounding as shown in the manufacturer terminal drawing; use the documented conductor sizes.
- For load sharing or redundancy, connect the required supplies to the documented source arrangement and observe the restrictions on switching multiple supplies off.

AMIKON PRODUCT SUPPORT

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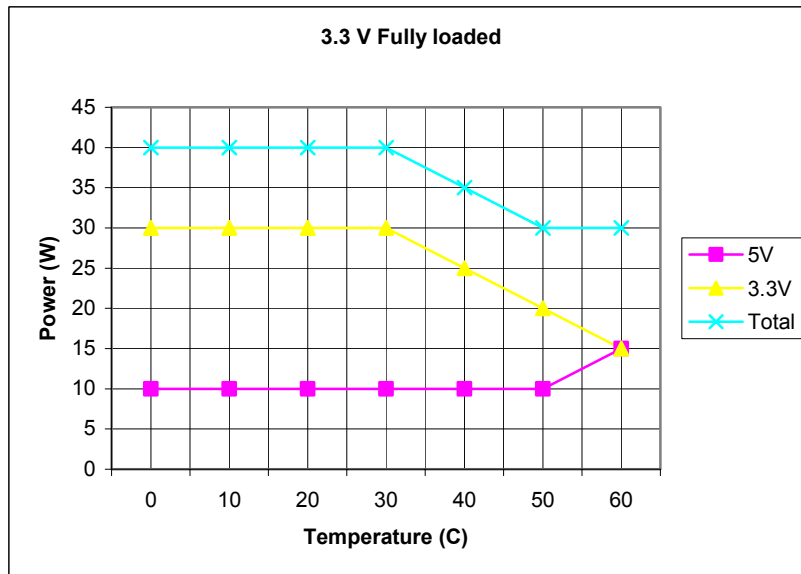
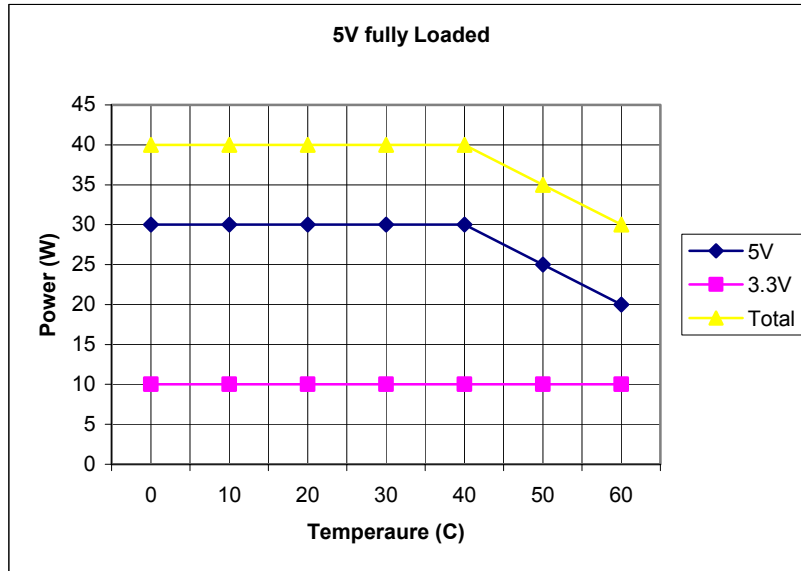
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GFK-2399A

Thermal Deratings: PSA140

The maximum output power for Power Supply PSA140 depends on the ambient temperature, as shown below.



Field Wiring: IC695PSA140

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.

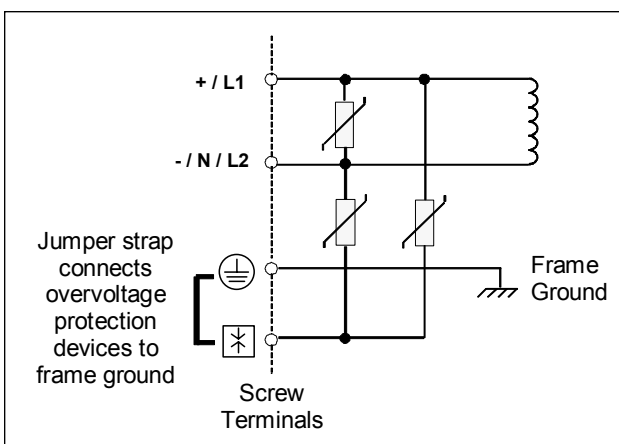
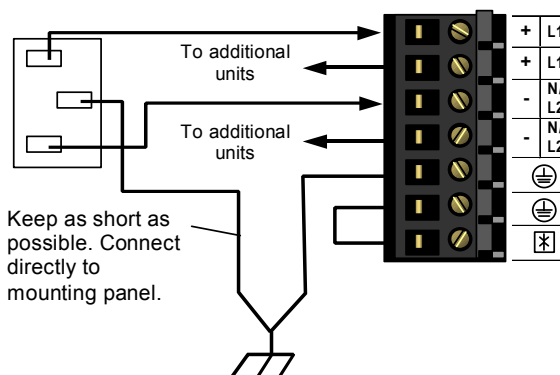
Warning

If the same external AC 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.

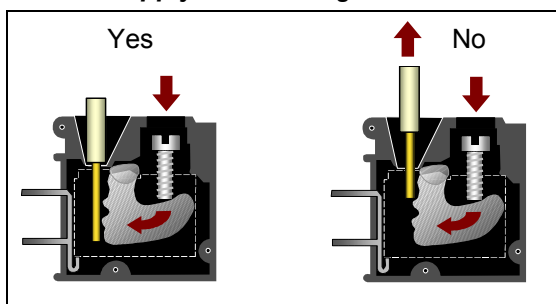
Input Overvoltage Protection

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.



Power Supply Field Wiring Terminals

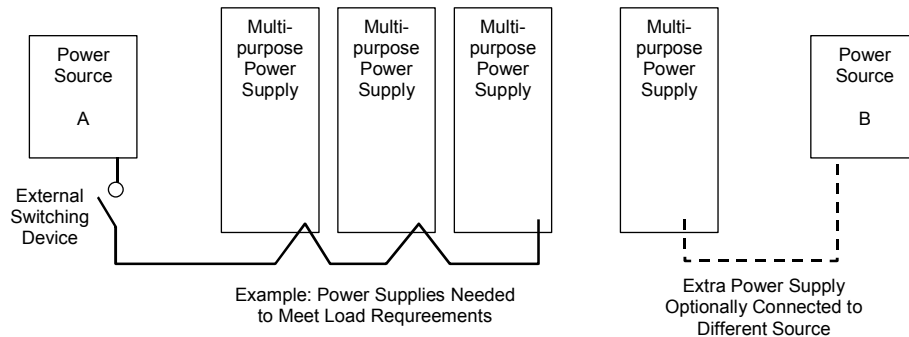


Each terminal accepts one AWG 14 to AWG 22 wire. The end of each wire should be stripped at least 3/8-inch (9mm). The terminal can accept a wire that is stripped up to 11 mm (.433 in) while providing full seating of the insulator. The wire must be fully inserted as shown at left, so that the insulation meets the insulation stop position inside the terminal. Tightening the terminal screw pivots the clamp firmly against the stripped end of the wire, holding it in place. If the wire is not fully inserted as shown at right, tightening the terminal screw may push the wire upward so that it is not connected.

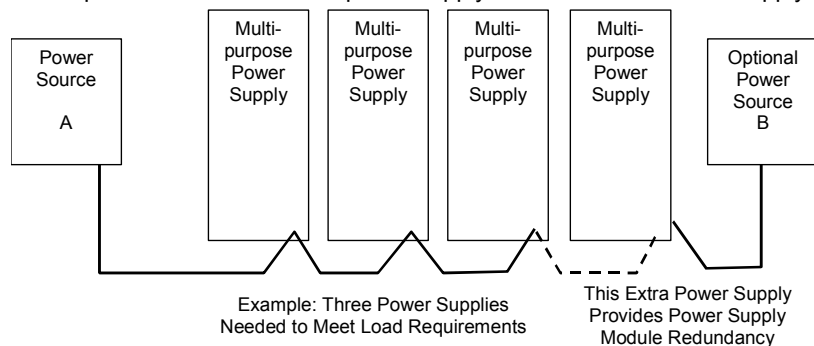
GFK-2399A

Connections for Load Sharing

In load-sharing installations, additional Multipurpose Power Supplies above the minimum required for the system load may be wired to the same power source, or a different source.

**Connections for Power Supply Redundancy**

Power Supply redundancy can be provided by using one additional Multipurpose Power Supply above the minimum required for the system power load. In this type of installation, all Multipurpose Power Supplies contribute a share of the backplane power and run at a correspondingly reduced load. This results in longer life for the individual power supplies. In addition, should one power supply module fail, system operation is not interrupted. The front panel switch can be used to remove a redundant unit. Note that this type of system does not provide protection against loss of the input power source. If more than one power supply is switched off, the remaining power supplies may become overloaded and shut down. An External switching device must be used to remove power from more than 1 power supply at a time in the Power Supply Redundancy mode.

**Power Source Redundancy**

If the overall power needs of the system can be met using either one or two Multipurpose Power Supplies, then power source redundancy can be provided. This requires using twice the minimum number of Multipurpose Power Supplies required to meet the system load requirements. In this type of system, half of the Multipurpose Power Supplies must be connected to one power source and the other half must be connected to a separate source. This arrangement provides all the advantage of a Basic Redundancy system, as described above, plus power source redundancy. The front panel switch may be used to remove an individual power supply as long as the minimum number of units remain powered up.

