# GE RX3i PacSystem Series Service Manual

IC695PSD140

## 1. Description

The IC695PSD140 is a PACSystems RX3i Power Supply module that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module is specifically a DC power supply, designed for an input voltage range of 18-30 VDC and maximum input power of 60 Watts at full load. It has a nominal output current and voltage of 0-6 A @ 5.1 VDC and 0-9 A @ 3.3 VDC. It also has a 24VDC voltage output for power circuits and output relay modules and maximum output power of 40 Watts. This m

## 2. Specifications

| Specification | Value |
|---|---|
| Brand | **GE Fanuc** |
| Series | **PACSystem RX3i** |
| Manufacturer | **GE Fanuc** |
| Part | **Number IC695PSD140** |
| Product | **Description Power Supply module** |
| Type | **Power supply module** |
| Input | **voltage range 85 to 264 VAC 100 to 300 VDC** |
| Power | **Supply 40 Watts** |
| Nominal | **Rated Voltage 120/240 VAC or 125 VDC** |
| Input | **Voltage Range 18 to 30 VDC** |
| Input | **Power 60 Watts maximum at full load** |
| Outputs | **3** |
| Output | **Voltage 24 VDC: 19.2 VDC to 28.8 VDC; 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)** |
| LED | **Indicators 4** |
| Output | **Current 24 VDC: 0 to 1.6 Amps; 5.1 VDC: 0 to 6 Amps; 3.3 VDC: 0 to 9 Amps** |
| Installation | **RX3i universal backplane** |
| Output | **Power 40 Watts maximum total of both outputs: 5.1 VDC = 30 Watts maximum; 3.3 VDC = 30 Watts maximum** |
| On/Off | **Switch Yes** |
| Ripple | **150 mV** |
| Output | **Current 5.1 VDC** |
| Noise | **150 mV** |
| Isolation | **None** |
| Number | **of Daisy-Chained PSD140 Up to 4** |
| Terminal | **Current 6 Amps** |
| Number | **of PSD140 in universal backplane Up to 4** |
| LED | **Indicators Power; P/S Fault; Overtemperature; Overload** |
| Redundancy | **Suppo** |

## 3. Product Information

The IC695PSD140 is a PACSystems RX3i Power Supply module that is manufactured by Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module is specifically a DC power supply, designed for an input voltage range of 18-30 VDC and maximum input power of 60 Watts at full load. It has a nominal output current and voltage of 0-6 A @ 5.1 VDC and 0-9 A @ 3.3 VDC. It also has a 24VDC voltage output for power circuits and output relay modules and maximum output power of 40 Watts. This module supports load sharing and redundancy applications

Technical specifications for IC695PSD140

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer GE Fanuc

Part Number IC695PSD140

Product Description Power Supply module

Type Power supply module

Input voltage range 85 to 264 VAC 100 to 300 VDC

Power Supply 40 Watts

Nominal Rated Voltage 120/240 VAC or 125 VDC

Input Voltage Range 18 to 30 VDC

Input Power 60 Watts maximum at full load

Outputs 3

Output Voltage 24 VDC: 19.2 VDC to 28.8 VDC; 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)

LED Indicators 4

Output Current 24 VDC: 0 to 1.6 Amps; 5.1 VDC: 0 to 6 Amps; 3.3 VDC: 0 to 9 Amps

Installation RX3i universal backplane

Output Power 40 Watts maximum total of both outputs: 5.1 VDC = 30 Watts maximum; 3.3 VDC = 30 Watts maximum

On/Off Switch Yes

Ripple 150 mV

Output Current 5.1 VDC

Noise 150 mV

Isolation None

Number of Daisy-Chained PSD140 Up to 4

Terminal Current 6 Amps

Number of PSD140 in universal backplane Up to 4

LED Indicators Power; P/S Fault; Overtemperature; Overload

Redundancy Supported

Description

The IC695PSD140 is an Emerson Automation manufactured Power supply module that is part of the PACsystem RX3i PAC platform. This module is specifically a Universal base power supply that is compatible for use with any RX3i Central Processing Unit (CPU). This module does not have jumper or DIP switches to define the module's operation. The IC695PSD140 occupies Two (2) slot of the chassis. It is powered by an external supply voltage of 100-240 VAC or 0-125 VDC and it delivers an output power rated 40 Watts with 30 Watts at 3.3 VDC; 30 Watts at 5VDC and 40 Watts at 24 VDC relay. Up to Four (4) multi-purpose power supply can be installed to a RX3i universal backplane for use in application that require redundancy and increased capacity modes. When configured in load sharing architecture, the IC695PSD140's On/ Off switch installed on the front panel must not be turned Off inadvertently. The minimum number of power supply must be maintained On to qualify the system. Additionally, for the same configuration, power supply modules must be connected to the same power source. This power supply has output ripple of 150 mV and noise measured at 150 mV while the ride-through time is 20 ms. Power ride through time refers to the capability of the power supply to supply sufficient power despite interruption in the supply line. When terminating connections to the power supply terminal, recommended wire size range is #14 - 22 AWG wire. The maximum current each input terminal can accommodate is 6 Amperes.

The IC695PSD140 module is a multipurpose power supply module that comes in the RX3i PACSystems series of I/O devices. This part has been designed and manufactured by GE Fanuc Automation. This module can operate both in load-sharing and redundancy applications, hence its multipurpose tag. It comes with 3 different outputs that consist of a 5.1 Volts DC output, a 24 Volts DC relay output, and a 3.3. Volts DC output intended for internal use. These 3 outputs can be used with RX3i modules. The GE Fanuc Automation IC695PSD140 multipurpose power supply module can be installed in an RX3i universal backplane and it only occupies one slot. It can be used as the only power supply in a system or it can be combined with additional multipurpose power supplies. It can be combined with up to 3 other modules. The GE Fanuc Automation IC695PSD140 multipurpose power supply module comes with several LED indicators. The power LED can be green or amber, the P/S fault and overload LED is red, and the over-temperature and overload LED is an amber indicator. Each LED indicates the current operating status of the module. The module has a nominal rated voltage of 24 Volts DC, an input voltage range of 18 to 30 Volts DC, and an output power rating of 40 Watts maximum, including its 3 outputs. The module does not provide isolation. It is important to note that the GE Fanuc Automation IC695PSD140 multipurpose power supply cannot be used under any circumstances with the IC695PSD040 or the IC695PSA040 power supply modules in a redundant mode or in an increased capacity mode. These modules are incompatible in these modes and damage to both types of equipment may occur if the users attempt to use them in these modes.