GE RX3i PacSystem Series Service Manual

IC695PSD040

1. Description

The IC695PSD040 is a power supply module that is part of the PACSystem RX3i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX3i universal backplane. It has an input voltage range of 18-30 VDC for module Start and 12-30 VDC for Module Run with maximum input Power of 60 Watts at full load. It has an output power of 40 Watts; Output voltage of 5.1 VDC, 3.3 VDC, 24 VDC; Output current of 0-6 Amperes and 0-9 Amperes,

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**GE Fanuc**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC695PSD040**
Product	**Description Power Supply Module**
Series	**PACSystem RX3i**
Type	**Power supply module**
Input	**voltage range 18 to 30 VDC**
Part	**Number IC695PSD040**
Power	**Supply 40 Watts**
Nominal	**Rated Voltage 24 VDC**
Input	**Voltage Start: 18 to 30 VDC Run: 12 to 30 VDC**
Voltage	**Range 18 to 30 VDC**
Start	**Voltage Range 12 to 30 VDC**
Output	**Voltage 5.1 VDC; 3.3 VDC**
Outputs	**3**
Input	**Power 60 Watts, maximum**
Output	**Current 5.1 VDC: 0 to 6 Amps 3.3 VDC: 0 to 9 Amps**
LED	**Indicators 4**
Inrush	**Current 4 Amps, 100 milliseconds maximum**
Output	**Power 40 Watts, maximum**
Installation	**RX3i universal backplane**
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)**
Ride	**through time 10 ms**
On/Off	**Switch Yes**
Output	**Current 5.1 VDC: 0 to 6 Amps; 3.3 VDC: 0 to 9 Amps**
Slot	**Assignment Slot 0**
Inrush	**Current 4 Amps per 100 ms max.**
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3. Product Information

The IC695PSD040 is a power supply module that is part of the PACSystem RX3i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX3i universal backplane. It has an input voltage range of 18-30 VDC for module Start and 12-30 VDC for Module Run with maximum input Power of 60 Watts at full load. It has an output power of 40 Watts; Output voltage of 5.1 VDC, 3.3 VDC, 24 VDC; Output current of 0-6 Amperes and 0-9 Amperes, respectively.

Technical specifications for IC695PSD040

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer GE Fanuc

Manufacturer GE Intelligent Platforms (Former); Emerson Automation (Current)

Part Number IC695PSD040

Product Description Power Supply Module

Series PACSystem RX3i

Type Power supply module

Input voltage range 18 to 30 VDC

Part Number IC695PSD040

Power Supply 40 Watts

Nominal Rated Voltage 24 VDC

Input Voltage Start: 18 to 30 VDC Run: 12 to 30 VDC

Voltage Range 18 to 30 VDC

Start Voltage Range 12 to 30 VDC

Output Voltage 5.1 VDC; 3.3 VDC

Outputs 3

Input Power 60 Watts, maximum

Output Current 5.1 VDC: 0 to 6 Amps 3.3 VDC: 0 to 9 Amps

LED Indicators 4

Inrush Current 4 Amps, 100 milliseconds maximum

Output Power 40 Watts, maximum

Installation RX3i universal backplane

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)

Ride through time 10 ms

On/Off Switch Yes

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

Slot Assignment Slot 0

Inrush Current 4 Amps per 100 ms max.

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

Power supply Redundancy Not supported

Isolation None

Ripple 50 mV

Increased capacity mode Not supported

Terminal Current 6 Amps

Number of Daisy-Chained PSD040 Two (2)

Wiring Terminals 14 AWG to 18 AWG wire

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

Terminal Current 6 Amps

Controller Redundancy Not supported

The IC695PSD040 is a Power Supply module that is designed for use with the PACSystem RX3i Series of Emerson Automation, formerly by GE Intelligent Platforms (GE IP). This module has an input voltage requirement of 18-30 VDC for module Start and 12-30 VDC for Module Run. It is designed for maximum input power of 60 Watts at full load operation. This Rack Power supply delivers an output voltages of 5.1 VDC with maximum output of 30 Watts an 3.3 VDC with maximum output power of 30 Watts as well while the module's maximum output power does not exceed 40 Watts. Furthermore, the power supply's output current are 0-6 Amperes for 5.1 VDC and 0-9 Amperes at 3.3 VDC. The IC695PSD040 also has an 24 VDC output which may be utilized by the user to energize circuits on relay output modules. This Rack power supply is installed to the Slot 0 of the universal backplane. Only 1 instance of this module is needed per backplane however, this module is not compatible for use in redundant power supply assembly or increased capacity modes. With this, if the rack power demand exceeds the output capability of the IC695PSD040, RX3i modules must be installed to a separate backplane to manage power supply loading. This power supply module though also supports daisy chain connection wherein up to Two (2) IC695PSD040 can be connected however, this does not increase output capacity of the unit. The IC695PSD040 features a ride through time of 10 ms. This feature refers to the capability of the of the power supply to maintain acceptable level of output from the time the input power has fluctuated below the minimum level or completely lost.

The IC695PSD040 is a power supply module that is manufactured by GE Fanuc Automation and included in the RX3i PACSystem. The main purpose of this power supply module is to provide power to backplane. It provides up to 40 Watts of power within a voltage range of 18 to 30 Volts DC. The GE Fanuc Automation IC695PSD040 power supply module comes with 3 different outputs rated at 5.1 VDC; 3.3 VDC and 24 VDC. This module also includes a relay output that can be used to provide power to circuits that are configured to be used as output relay modules. It also has a specific output voltage of 3.3 Volts DC that is intended for use between the RX3i modules that are attached to this circuit. The GE Fanuc Automation IC695PSD040 power supply module is meant to be installed in a GE RX3i series universal backplane. Only one module of this kind can be installed in this backplane and

once it is applied to specific circuits, it cannot be used to supply power in other redundant or increased capacity modes. The GE Fanuc Automation IC695PSD040 power supply module comes with different indicators that show when an internal fault has occurred. This indicator is connected directly to the CPU so that it can detect a loss of power and react accordingly. These indicators are the power indicator, P/S fault indicator, overtempterature indicator, and the overload indicator. The module occupies only one slot in the rack. The module also comes with an on and off switch on the front.