GE Rx7i PACsystem Series Service Manual

IC698PSA100

1. Description

The IC698PSA100 is a power supply module that is part of the PACSystem RX7i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX7i universal backplane. It has an input voltage range of 85 to 264 VAC 47 to 63 Hz and 100-150VDC and maximum input Power of 125 Watts, typical and 150 Watts,

2. Specifications

Specification	Value
Brand	GE Fanuc
Series	Rx7i PACsystem
Manufacturer	GE Intelligent Platforms (Former); Emerson Automation (Current)
Part	Number IC698PSA100
Series	PACSystem RX7i
Description	Power supply module
Part	Number IC698PSA100
Voltage	120/240 Volts AC, 125 Volts DC
Product	Description Power Supply module
Mounting	Leftmost slot
Input	Voltage Range 85 to 264 VAC; 100-150VDC
Power	Rating 125 Watts
Nominal	Input frequency 120/240 VAC, 125VDC
Output	Voltage 5/12, -12 Volts DC
AC	Input Frequency 47-63 Hz
Power	Factor 0.99 min
Input	Power 125 Watts, typical; 150 Watts, maximum
Isolation	1500 Volts
Output	Voltage 5.1 VDC; +12 VDC; - 12VDC
Ride	Through 15 milliseconds
Output	Current 5.1 VDC: 0-20 Amperes +12 VDC: 0-2 Amperes - 12VDC: 0-1 Ampere
Holdup	Time 5 ms
Output	Power 100 Watts on total Three (3) outputs
Operating	Temperature 0-60 degrees Celsius
Output	Protection Overvoltage; Overcurrent
Ride	through time 15 ms
Slot	Assignment Slot 0
Wiring	Terminals Input Terminals: AWG #16 (1.3 mm2) GND Terminals

3. Product Information

The IC698PSA100 is a power supply module that is part of the PACSystem RX7i platform, currently under Emerson Automation, formerly produced by GE Intelligent Platform (GE IP). This power supply mounts to an RX7i universal backplane. It has an input voltage range of 85 to 264 VAC 47 to 63 Hz and 100-150VDC and maximum input Power of 125 Watts, typical and 150 Watts,

Technical specifications for IC698PSA100

Brand GE Fanuc

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Part Number IC698PSA100

Series PACSystem RX7i

Description Power supply module

Part Number IC698PSA100

Voltage 120/240 Volts AC, 125 Volts DC

Product Description Power Supply module

Mounting Leftmost slot

Input Voltage Range 85 to 264 VAC; 100-150VDC

Power Rating 125 Watts

Nominal Input frequency 120/240 VAC, 125VDC

Output Voltage 5/12, -12 Volts DC

AC Input Frequency 47-63 Hz

Power Factor 0.99 min

Input Power 125 Watts, typical; 150 Watts, maximum

Isolation 1500 Volts

Output Voltage 5.1 VDC; +12 VDC; - 12VDC

Ride Through 15 milliseconds

Output Current 5.1 VDC: 0-20 Amperes +12 VDC: 0-2 Amperes - 12VDC: 0-1 Ampere

Holdup Time 5 ms

Output Power 100 Watts on total Three (3) outputs

Operating Temperature 0-60 degrees Celsius

Output Protection Overvoltage; Overcurrent

Ride through time 15 ms

Slot Assignment Slot 0

Wiring Terminals Input Terminals: AWG #16 (1.3 mm2) GND Terminals: #12 AWG (3.3 mm2)

The IC698PSA100 is a PACSystem RX7i Power Supply module that is manufactured by Emerson Automation, formerly under GE Intelligent Platforms (GE IP). This power supply module mounts to the leftmost slot of any RX7i standard rack, specifically, slot 0. It comes with screw type input terminals, designed for input voltage rages of 85 to 264 VAC (nominal voltage of 120 / 240 VAC) with frequency of 47 to 63 Hz and 100-150VDC (nominal voltage of 125 VDC). External power connections must be made using AWG #16 (1.3 mm2) solid or stranded copper wire with insulation rating of 75°C (167°F). For ground connection, use #12 (3.3 mm2) copper wire with 75°C (167°F) insulation rating. Appropriate termination of GND connections may significantly eliminate if not, reduce system noise. The IC698PSA100 delivers a maximum output power of 100 Watts which is the total for all Three (3) output terminals that delivers 4.875 to 5.25 volts, 0—20 amps, 5.1 VDC, nominal; 11.64 to 12.6 volts,, 0—2 amps, +12 VDC, nominal and –12.60 to –11.64 volts, 0—1 amps, -12 VDC, nominal. This power supply module features a ride through time of 15 ms, minimum and hold-up time of 5 ms, minimum. It is also provided with Proactive overvoltage and overcurrent limits, specifically, 5.7 to 6.7 volts overvoltage protection at +5VDC; 21A at +5 VDC output; 2.5A at +12 VDC output and 3.5A at -12 VDC output. This power supply module has an operating temperature of 0°C to 60°C (32° to 140°F) with isolation rating of 1500 VDC.

The IC698PSA100 power supply module is an Rx7i PACsystem modern power supply module manufactured by GE. It comes with a nominal voltage rating of 120/240 Volts AC or 125 Volts DC. The input voltage range of the power supply is in between 85 and 264 Volts AC or 100 and 150 Volts DC. The power supply module resides in the leftmost slot or slot 0 of the Rx7i system backplane. The power rating of the module is 125 Watts. It has an output voltage of 5 Volts DC, 12 Volts DC, and -12 Volts DC. The IC698PSA100 power supply module sends logic level signals to the modules by using the backplane of the system. The power supply module is enhanced in terms of safety and protection. Its protected from over-current, over-temperature, and over-voltage situations. The IC698PSA100 power supply module is equipped with a switch that is located on the front side of the power supply. It helps to enable or disable the output channel and it does not interfere with the AC line input. LED indicators are present in the power supply module and they alert the operators about different things. The LEDs are the FIELD OK, OUTPUT OK, and OVER TEMP LEDs. The IC698PSA100 power supply module has a power factor of 0.99 min. The isolation in the module is 1500 Volts DC. The power supply also offers a ride-through of 15 milliseconds without affecting the DC outputs and a hold up time of 5 milliseconds when the DC output drops out. The IC698PSA100 power supply module needs an operating temperature range between 0 and 60 degrees Celsius. The module has been certified to operate in a Class 1 Division 2 environment.