GE Series 90-30 Series Service Manual

IC693PWR321

1. Description

The GE Fanuc IC693PWR321 is a Standard Power Supply module that is part of the GE Fanuc Series 90-30 platform. This power supply has load capacity of 30 Watts with nominal input voltage of 100 to 240 VAC or 125 VDC. It has output capacities of 15 watts @ 5VDC, 20 Watts @ 24VDC and 15 Watts @ +24VDC Relay.

2. Specifications

Specification	Value
Inrush	**Current 4A peak, 250 milliseconds maximum**
Part	**Number IC693PWR321**
Series	**90-30 PLC**
Brand	**GE Fanuc**
Product	**Type Standard Power Supply**
Protocol	**Support RS485**
No.	**of Outputs Three (3)**
Nominal	**Rated Voltage 120/240 VAC or 125 VDC**
Input	**Voltage Range, AC 85 to 264 VAC**
Input	**Voltage Range, DC 100 to 300 VDC**
Input	**Power 90 VA with VAC Input; 50 W with VDC Input**
Output	**Voltage 5 VDC: 15 Watts, maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum**
Output	**Power 5 VDC and 24 VDC Relay: 15 watts maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum**
Holdup	**Time: 20 milliseconds, minimum**
Description	**Power supply**
Voltage	**85-264 Volts AC / 100-300 Volts DC**
Voltage	**output 5/24 Volts DC**
Communication	**RS 485**
Power	**30 watts**
Installation	**Leftmost slot of the baseplate**
Product	**Lifecycle Status* Discontinued/Obsolete**
The	**GE Fanuc IC693PWR321 module is a power supply module from the 90-30 Series. It powers the processing capabilities of the Fanuc Series 90-30 PLCs.**

3. Product Information

The GE Fanuc IC693PWR321 is a Standard Power Supply module that is part of the GE Fanuc Series 90-30 platform. This power supply has load capacity of 30 Watts with nominal input voltage of 100 to 240 VAC or 125 VDC. It has output capacities of 15 watts @ 5VDC, 20 Watts @ 24VDC and 15 Watts @ +24VDC Relay.

Technical specifications for IC693PWR321

Inrush Current 4A peak, 250 milliseconds maximum

Part Number IC693PWR321

Series 90-30 PLC

Brand GE Fanuc

Product Type Standard Power Supply

Protocol Support RS485

No. of Outputs Three (3)

Nominal Rated Voltage 120/240 VAC or 125 VDC

Input Voltage Range, AC 85 to 264 VAC

Input Voltage Range, DC 100 to 300 VDC

Input Power 90 VA with VAC Input; 50 W with VDC Input

Output Voltage 5 VDC: 15 Watts, maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum

Output Power 5 VDC and 24 VDC Relay: 15 watts maximum 24 VDC Relay: 15 watts maximum 24 VDC Isolated: 20 watts maximum

Holdup Time: 20 milliseconds, minimum

Description Power supply

Voltage 85-264 Volts AC / 100-300 Volts DC

Voltage output 5/24 Volts DC

Communication RS 485

Power 30 watts

Installation Leftmost slot of the baseplate

Product Lifecycle Status* Discontinued/Obsolete

The GE Fanuc IC693PWR321 module is a power supply module from the 90-30 Series. It powers the processing capabilities of the Fanuc Series 90-30 PLCs. It is located in the leftmost slot of the baseplate. It comes with a power rating of 30 Watts. It can work with both AC and DC power supplies. The input voltage source of the device must have voltage ranges between 85 and 264 Volts AC or 100 and 300 Volts DC. It provides different voltage outputs: 5 Volts DC, 24 Volts DC voltage that provides power to circuits, and an isolated 24 Volts DC voltage supply that is used by some modules to provide external power. it has an inrush current of 4 Amps peak, with 250 milliseconds maximum. This programmable controller power supply device has a robust build and it is equipped with a battery.

The IC693PWR321 module is fully compatible with any CPU model. The power supply module is certified by the cULus, and CE standards. It has been designed to work in a Class 1 Division 2 rated environment. The IC693PWR321 module comes with power supply limiting feature that protects the hardware immediately when there is a direct short. The power supply unit is equipped with 6 terminals for operator connections. It comes with an enhanced diagnostics feature that tracks all events and updates for the operators. A smart switch fusing is built inside the power supply device as a protection measure. For communication, the IC693PWR321 module is equipped with an RS-485 serial port. The serial port can be used to connect to different peripheral devices and a CPU/computer.

The IC693PWR321 is capable of being powered with AC or DC source. The AC input voltage range of this power supply is 85-264 VAC with nominal values of 120-240VAC. For DC supply voltage, acceptable voltage range is 100-300 VDC with nominal value of 125 VDC. It has input power requirement of 90 VA with AC input and 50W with a DC input. It can withstand an inrush current of 4 A, peak, with duration of 250 ms.

The IC693PWR321 output power capabilities include maximum of 15 Watts for 5 VDC and 24VDC relay operation; maximum of 15 Watts for 24VDC Relay and 20 Watts, maximum for 24VDC isolated. This power supply has output voltages of 5.0 VDC to 5.2 VDC with nominal value of 5.1 VDC; 24VDC to 28VDC for 24VDC relay; 21.5VDC to 28VDC for isolated 24VDC operation. It has overvoltage protection of 6.4VDC to 7VDC and overcurrent protection of 4A, maximum with holdup time of 20 ms.

The IC693PWR321 also has One (1) 9-pin sub-D connector RS485 compatible serial port. It is shipped with an internal fuse with GE catalog number of 44A724627-109. This fuse may be sourced from 3rd party suppliers. Applicable replacement fuse is Bussman – 215-002 (GDC-2 or GMC-2) and Littlefuse – 239-002.