GE Versamax Series Service Manual

IC200PWR002

1. Description

The IC200PWR002 is a Power supply module that is part of the VersaMax product family, currently under Emerson Automation, formerly produced by GE Intelligent Platforms. This power supply module is a 24 VDC expanded power supply with input supply voltage of 18-30 VDC. It has an output voltage of 5 VDC and 3.3 VDC and total output current of 1.5 A, maximum specifically, 1.0 A,

2. Specifications

Specification	Value
Brand	GE Fanuc
Series	Versamax
Manufacturer	GE Fanuc (Former); Emerson Automation (Current)
Part	Number IC200PWR002
Series	VersaMax
Lifecycle	Status Active
Product	Description Supplemental Power supply operation
Input	Voltage 24 Volts DC
Supported	when installed on a Booster carrier Power Supply module
Output	Voltage 5 Volts DC and 3.3 Volts DC
Input	Voltage, range 18-30 VDC
Extended	Power Yes
Input	voltage, nominal 24 VDC
Input	Power 11 W
Output	Voltage 5 VDC; 3.3 VDC
Isolated	Power No
Total	output current 1.5 Amperes
Holdup	Time 10 ms
Output	current at 3.3 VDC 1.0 A, maximum
Protection	Short circuit, overload, reverse polarity
Output	current at 5VDC 1.5 A, maximum
Inrush	Current 20 A at 24 VDC and 25 A at 30 VDC
Built-in	module protection Short circuit; Overload; Reverse polarity
Total	Output Current 1.5 A maximum
Compatible	module VersaMax CPU, NIU, I/O modules
3.3V	Output Current 0.25 A maximum
5V	Output Current 1.5 A minus the 3.3 V current used, maximum
Dimensions	49 mm (1.93 in)

3. Product Information

The IC200PWR002 is a Power supply module that is part of the VersaMax product family, currently under Emerson Automation, formerly produced by GE Intelligent Platforms. This power supply module is a 24 VDC expanded power supply with input supply voltage of 18-30 VDC. It has an output voltage of 5 VDC and 3.3 VDC and total output current of 1.5 A, maximum specifically, 1.0 A,

Technical specifications for IC200PWR002

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Series Versamax

Manufacturer GE Fanuc (Former); Emerson Automation (Current)

Part Number IC200PWR002

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Lifecycle Status Active

Product Description Supplemental Power supply operation

Input Voltage 24 Volts DC

Supported when installed on a Booster carrier Power Supply module

Output Voltage 5 Volts DC and 3.3 Volts DC

Input Voltage, range 18-30 VDC

Extended Power Yes

Input voltage, nominal 24 VDC

Input Power 11 W

Output Voltage 5 VDC; 3.3 VDC

Isolated Power No

Total output current 1.5 Amperes

Holdup Time 10 ms

Output current at 3.3 VDC 1.0 A, maximum

Protection Short circuit, overload, reverse polarity

Output current at 5VDC 1.5 A, maximum

Inrush Current 20 A at 24 VDC and 25 A at 30 VDC

Built-in module protection Short circuit; Overload; Reverse polarity

Total Output Current 1.5 A maximum

Compatible module VersaMax CPU, NIU, I/O modules

3.3V Output Current 0.25 A maximum

5V Output Current 1.5 A minus the 3.3 V current used, maximum

Dimensions 49 mm (1.93 in) x 133.4 mm (5.25 in) x 39 mm (1.54 in)

The IC200PWR002 is a Power supply module that is part of the VersaMax platform, formerly manufactured by GE Intelligent Platforms (GE IP), currently produced by Emerson Automation. This module can be used as primary power supply or as a power supply booster carrier. When used as a primary power supply, this module is used to provide power to the enable the VersaMax installed and connected to the backplane. When used as a booster power supply, this module is installed to a booster carrier and function as a supplemental power supply. It has 5 screw type terminals located on the module’s bottom front panel. Two terminal from the left are the +DC and -DC terminals while the 3rd terminal is the ground terminal. The last Two terminals require no connection. The IC200PWR002 is designed to operate at an input supply voltage of 18-30 VDC with nominal supply voltage of 24 VDC. The modules input power is 11 Watts with holdup time of 10 ms. It has an inrush current rating of 20 Amperes with maximum duration of 6 ms at 24 VDC and 25 Amperes for maximum duration of 6 ms at 30 VDC. The module output characteristics include output voltage of 5 VDC and 3.3 VDC with output current of 1.5 Amperes, maximum at 3.3 VDC and 1.0 Amperes at 5 VDC however, the output current cannot exceed the maximum output which is 1.5 Amperes. This power supply module is also installed with an internal short circuit, overload and reverse polarity protection. This power supply module is used mainly with VersaMax I/O modules, Network Interface Units (NIU) and Central Processor Units (CPUs).

The GE Fanuc IC200PWR002 expanded power supply module is used to supply power to backplane devices such as I/Os, CPUs, and NIUs. If connected to a network interface unit (NIU) or a central processing unit (CPU), the expanded power supply module acts as the primary power supply. However, if it is connected to the power supply booster carrier, the expanded power supply module acts as the secondary power supply. The IC200PWR002 module requires DC power for its output and input voltage. It has an output voltage rating of both 3.3 Volts DC and 5 Volts DC, and an input voltage rating of 24 Volts DC. The output voltage, both at 5 Volts DC and 3.3 Volts DC, determines the module’s output current and the current should not exceed 1.5 Amps. It has an extended power option, but no isolated power. The GE Fanuc Versamax IC200PWR002 expanded power supply module has an input power rating of 11 Watts and a holdup time of 10 milliseconds. It also has an inrush current rating of 25 Amps at 30 Volts DC and one of 20 Amps at 24 Volts DC. The total output current of the IC200PWR002 expanded power supply module should have a maximum rating of 1.5 Amps. If the output voltage rating is 3.3 Volts, the output current will reach up to 0.25 Amps. If the output voltage rating is 5 Volts, the output current will reach up to 1.5 Amps minus the 3.3 Volts of the voltage that is used. It has dimensions of 49 millimeters (1.93 inches) x 133.4 millimeters (5.25 inches) x 39 millimeters (1.54 inches).