GE RX3i PacSystem Series Service Manual

IC694MDL240

1. Description

The IC694MDL250 is a discrete input module from the PACSystem RX3i system. This module comes with individually isolated input channels, compared to the IC694MDL250 which only has a single group of 16 input channels. With this, the IC694MDL250 is ideally used in high-availability systems. aThe IC694MDL240 is a PACsystem RX3i 120 VAC discrete input module. This module is formerly produced by GE Intelligent Platforms, now acquired by Emerson Automation. It features Sixteen (16) discrete input chann

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**GE Fanuc**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC694MDL240**
Product	**Description Discrete input module**
Series	**PACSystem Rx3i**
Description	**Input module**
No	**of Channels Sixteen (16)**
Part	**Number IC694MDL240**
Points	**16**
Input	**signal range 0-132 VAC**
Product	**Description Discrete input module**
Voltage	**120 Volts AC**
Nominal	**Input voltage 0-120 VAC**
Input	**grouping Single group of 16 inputs**
Current	**7 milliamps**
Input	**Frequency 47-63 Hz**
Isolation,	**Optical and channel: 250 volts, continuous; 1500 VAC for 1 minute**
Power	**consumption 90 milliamps**
Input	**current 12mA per channel**
Input	**current 12 mA**
Bus	**voltage 5 Volts**
Current	**draw 90 mA (all inputs active)**
Off	**response time, maximum 45 ms**
Temperature	**0-60 degrees Celsius**
On	**State Voltage 74 VAC to 132 VAC**
On–state	**Voltage 74 to 132 volts AC**
On-state	**voltage 74-132 Volts AC**
On	**state current 6 mA**
Off–state	**Voltage 0 to 20 volts AC**
Off	**state voltage 0 VAC - 20 VAC**
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3. Product Information

The IC694MDL250 is a discrete input module from the PACSystem RX3i system. This module comes with individually isolated input channels, compared to the IC694MDL250 which only has a single group of 16 input channels. With this, the IC694MDL250 is ideally used in high-availability systems. aThe IC694MDL240 is a PACsystem RX3i 120 VAC discrete input module. This module is formerly produced by GE Intelligent Platforms, now acquired by Emerson Automation. It features Sixteen (16) discrete input channels in a single group. Each channel accepts an input voltage range of 0-132 VAC with a nominal rated voltage of 120 VAC. It is designed to receive a typical input current of 12 mA at 120 VAC rated voltage.

Technical specifications for IC694MDL240

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer GE Fanuc

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

Part Number IC694MDL240

Product Description Discrete input module

Series PACSystem Rx3i

Description Input module

No of Channels Sixteen (16)

Part Number IC694MDL240

Points 16

Input signal range 0-132 VAC

Product Description Discrete input module

Voltage 120 Volts AC

Nominal Input voltage 0-120 VAC

Input grouping Single group of 16 inputs

Current 7 milliamps

Input Frequency 47-63 Hz

Isolation, Optical and channel: 250 volts, continuous; 1500 VAC for 1 minute

Power consumption 90 milliamps

Input current 12mA per channel

Input current 12 mA

Bus voltage 5 Volts

Current draw 90 mA (all inputs active)

Off response time, maximum 45 ms

Temperature 0-60 degrees Celsius

On State Voltage 74 VAC to 132 VAC

On–state Voltage 74 to 132 volts AC

On-state voltage 74-132 Volts AC

On state current 6 mA

Off–state Voltage 0 to 20 volts AC

Off state voltage 0 VAC - 20 VAC

Off state current 2.2 mA

On–state Current 6mA minimum

On response time, typical 30 ms

Off–state Current 2.2mA maximum

On response time, maximum 30 ms

Product Lifecycle Status Active

The IC694MDL240 is a discrete input module that belongs to the PACSystem RX3i series. This Programmable Automation Controller (PAC) platform is a family of mid-range controllers that comes in a highly modular configuration. Specifically, the IC694MDL240 is a 120 VAC-rated discrete input module, accepting an input voltage range of 85-132 VAC along with an input frequency of 5-0/60 Hz. This module comes with a single group of input channels and a single common terminal. This module is a categorized as high voltage module, indicated by the module’s red band. It is installed to any vacant slot of the PACSystem RX3i backplane. It occupies a single slot with a backplane current draw of 90 mA. Each input point exhibits a 30 ms On response time and 45 ms Off response time while On-state and Off-state voltages are 74-132 VAC and 0-20 VAC, respectively. The IC694MDL240 module has an optical isolation rating of 250 VAC for continuous voltage and 1500 VAC for 1 minute. Typical applications of the IC694MDL240 include the integration of push-button switches, limit switches, auxiliary contacts, proximity switches, and other binary operating devices. Module channel monitoring can be easily implemented by means of the Sixteen (16) numbered LED status indicators that represent each channel. A channel that is actively receiving current input has its corresponding LED indicator illuminated otherwise, the LED is de-energized. To operate the module, an external AC power source must be provided and wired to the module’s input terminals. Multiple instances of the IC694MDL240 is allowed for installation to a PACSystem RX3i system, limited only by the controller’s I/O and memory capacity as well as the number of a vacant slot of the system.

The IC694MDL240 module is an RX3i PACSystem input module manufactured by GE Fanuc. It has 16 input points and it comes with a voltage rating of 120 Volts AC. It is an intelligent device and it can be used with different PLC systems and input devices, switches, and sensors. It is a digital module and it has a current rating of 7 milliamps. The channels of this module are not isolated. The frequency rating of the module is 50 to 60 Hertz and it depends on the load that is currently on the module. The 16 input points of the module each come with an individual LED that illuminate when the input is on. The input module has one common power input terminal. The IC694MDL240 input module can only work with an AC power source. It can be easily installed in any I/O slot in the RX3i PLC system. The module can consume 90 milliamps of current from the 5 Volts bus on the backplane. For input power, the on-state voltage of the IC694MDL240 input module ranges between 74 and 132 Volts AC, and the off-state voltage is in the range of 0 and 20 Volts AC. The on-state current of the

input module is 6 milliamps minimum and the off-state current is 2.2 milliamps maximum. The maximum operating temperature of the module should not exceed 60 degrees Celsius. The IC694MDL240 input module offers data transfer at high speeds. This input module meets the UL 508 standards. It has been designed to be operated in a Class 1, Division 2 rated environment.