GE RX3i PacSystem Series Service Manual

IC694MDL740

1. Description

The IC694MDL740 is a PACsystem RX3i 12/24 VDC Positive logic output module. This module is formerly produced by GE Intelligent Platforms, now acquired by Emerson Automation. It features Sixteen (16) discrete output channels in Two (2) groups of Eight (8) channels. Each channel delivers an output voltage range of 12-24 VDC with an output current of 0.5 Amperes per point and 2 Amperes per common. It has a 110 mA current draw when all outputs are energized.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**GE Fanuc**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC694MDL740**
Product	**Description Discrete output module**
Series	**PACSystem Rx3i**
Type	**Output module**
No	**of Channels Sixteen (16)**
Part	**Number IC694MDL740**
Outputs	**per Module 16 (two groups of eight outputs each)**
No.	**of output groups Two (2)**
Product	**Description Discrete output module**
Rated	**voltage 12/24 V DC**
No.	**of channels per group Eight (8)**
No.	**of output groups Two (2)**
Output	**Voltage Range 12 to 24 V DC (+20%, -15%)**
Wiring	**configuration Positive Logic**
Channels	**per group Eight (8)**
Isolation	**250 V AC continuous;**
Output	**signal range 12 /24 VDC (-25%, +15%)**
Isolation:	**Field to Backplane 250 VAC continuous; (optical) and to Frame Ground 1500 VAC for 1 minute Group to Group 250 VAC continuous 1500 VAC for 1 minute**
Power	**Consumption 110 mA (all outputs on) from 5V DC bus on backplane**
Nominal	**output voltage 12 / 24 VDC**
Output	**voltage range 12-24 VDC wit**

3. Product Information

The IC694MDL740 is a PACsystem RX3i 12/24 VDC Positive logic output module. This module is formerly produced by GE Intelligent Platforms, now acquired by Emerson Automation. It features Sixteen (16) discrete output channels in Two (2) groups of Eight (8) channels. Each channel delivers an output voltage range of 12-24 VDC with an output current of 0.5 Amperes per point and 2 Amperes per common. It has a 110 mA current draw when all outputs are energized.

Technical specifications for IC694MDL740

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer GE Fanuc

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

Part Number IC694MDL740

Product Description Discrete output module

Series PACSystem Rx3i

Type Output module

No of Channels Sixteen (16)

Part Number IC694MDL740

Outputs per Module 16 (two groups of eight outputs each)

No. of output groups Two (2)

Product Description Discrete output module

Rated voltage 12/24 V DC

No. of channels per group Eight (8)

No. of output groups Two (2)

Output Voltage Range 12 to 24 V DC (+20%, -15%)

Wiring configuration Positive Logic

Channels per group Eight (8)

Isolation 250 V AC continuous;

Output signal range 12 /24 VDC (-25%, +15%)

Isolation: Field to Backplane 250 VAC continuous; (optical) and to Frame Ground 1500 VAC for 1 minute Group to Group 250 VAC continuous 1500 VAC for 1 minute

Power Consumption 110 mA (all outputs on) from 5V DC bus on backplane

Nominal output voltage 12 / 24 VDC

Output voltage range 12-24 VDC with (+ 20%, -15%)

LEDs Yes

Output current per channel 0.5 mA

Output current 0.5 Amperes per point; 2 Amperes per module

Otput Voltage Drop 0.5 Volts maximum

Output current per module 2:00 AM

Maximum inrush current 4.78 A For 10 ms

Offâ□□state Leakage 1 mA maximum

Current draw 110 mA (all outputs active)

On response time, maximum 2 ms

Current 0.5 Amps

Response time, typical 2 ms

Off response time, maximum 2 ms

Isolation, Field to Backplane (optical) and to Frame Ground 250 VAC continuous; 1500 VAC for 1 minute

Output Voltage Drop 1.0 volt, maximum

Isolation, Group to Group 250 VAC continuous; 1500 VAC for 1 minute

Off-state Leakage 1 mA maximum

Product Lifecycle Status Active

The IC694MDL740 is a discrete output module from the PACSystem RX3i Programmable Automation Controller (PAC) series. Formerly produced by GE Intelligent Platforms (GE IP), this module is now under Emerson Automation. It belongs to the modern designed controller modules, built with Sixteen (16) Positive output channels generating rated voltages of 12 /24 VDC with an output current of 0.5 Amperes per point and 2 Amperes per module. This module has Two (2) groups of Eight (8) outputs each with each group having isolated commons. The IC694MDL740 is a single slot module that mounts to an available slot of the RX3i backplane. It is primarily compatible with motor starters, solenoids, and panel indicators. It comes with individual channel LED indicators that depict the energization state of each channel with a singular Fuse Blown status LED indicator. The IC694MDL740 had the field to backplane isolation rated 250 VAC, continuous; optical isolation which is Frame to ground isolation rated 1500 VAC for 1 minute and group to group isolation rated 250 VAC continuous and 1500 VAC for 1 minute. This module has an inrush current rating of 4.78 Amperes for 10 ms, a maximum output voltage drop of 1 volt, maximum off-state leakage current rated at 1 mA, and 2 ms On and Off response time. This module has a backplane current draw of 110 mA. The number of IC694MDL740 module instances depends on the I/O capacity, the number of available slots, and memory of the host processor. It can be part of a local I/O assembly or part of a larger distributed I/O architecture.

The IC694MDL740 output module is an output module that belongs to the Rx3i PACSystems series by GE Fanuc Automation. This module is specifically a positive logic output module that comes with 16 different output points that are sorted into 2 groups of 8 output points each. This module also provides isolation between these output points so there is no interference between them when operating. The logic characteristic of the module is positive, which means that it can source current to the load from the positive power bus. The GE Fanuc Automation IC694MDL740 Rx3i PACSystems output module is compatible with multiple field devices. These devices can be motors and solenoids, among others. All of the parts

need to be powered from an external power supply. The GE Fanuc Automation IC694MDL740 Rx3i PACSystems output module comes with 1 LED Indicator per point which helps the operators have a quick grasp of the current operating statuses of all the devices. It is important to note that this module comes with 16 outputs and that it is a low-voltage device as the blue band on the front label of the module indicates. The GE Fanuc Automation IC694MDL740 Rx3i PacSystems output module has a rated voltage of 12 to 24 Volts DC and an isolation range of 250 Volts AC continuous and of 1500 Volts AC per minute. This module has an overall power consumption rating of 110 milliamps, including all its outputs with 5 Volts DC bus voltage on the backplane. The module can be mounted in any one of the racks from the RX3i system series regardless of the slot.