GE RX3i PacSystem Series Service Manual

IC694MDL340

1. Description

The IC694MDL340 is a PACsystem RX3i 120 VAC discrete 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. Each channel delivers an output voltage range of 85-132 VAC with a nominal rated voltage of 120 VAC. It has a maximum output current of 0.5 Ampere per point or 3 Amperes per group.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**PACSystem RX3i**
Manufacturer	**GE Fanuc**
Manufacturer	**GE Intelligent Platforms (Former); Emerson Automation (Current)**
Part	**Number IC694MDL340**
Product	**Description Discrete output module**
Series	**PACSystem Rx3i**
Rated	**Voltage 120 Volts AC**
No	**of Channels Sixteen (16)**
Part	**Number IC694MDL340**
Output	**Current 0.5 Amperes**
No.	**of input groups Two (2)**
Product	**Description Discrete output module**
Output	**Points 16 (2 groups of 8)**
No.	**of channels per group Eight (8)**
No	**of groups Two (2)**
Frequency	**50/60 Hz**
Output	**signal range 85-132 VAC**
Output	**channels per group Eight (8)**
Output	**Voltage Range 85 to 132 Volts AC**
Nominal	**output voltage 120 VAC**
Isolation,	**Optical and channel: 250 volts, continuous; 1500 VAC for 1 minute**
Power	**Consumption 315 mA from 5 V bus**
Output	**Frequency 50/60 Hz**
Output	**voltage range 85-132 VAC (47 to 63 Hz)**
Operating	**Temperature 32 to 140 degrees Fahrenheit (0 to 60 degrees Celsius)**
Output	**current per channel 0.5 mA**
Output	**current 0.5 Amperes per point; 3.0 Amperes per**

3. Product Information

The IC694MDL340 is a PACsystem RX3i 120 VAC discrete 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. Each channel delivers an output voltage range of 85-132 VAC with a nominal rated voltage of 120 VAC. It has a maximum output current of 0.5 Ampere per point or 3 Amperes per group.

Technical specifications for IC694MDL340

Brand GE Fanuc

Series PACSystem RX3i

Manufacturer GE Fanuc

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

Part Number IC694MDL340

Product Description Discrete output module

Series PACSystem Rx3i

Rated Voltage 120 Volts AC

No of Channels Sixteen (16)

Part Number IC694MDL340

Output Current 0.5 Amperes

No. of input groups Two (2)

Product Description Discrete output module

Output Points 16 (2 groups of 8)

No. of channels per group Eight (8)

No of groups Two (2)

Frequency 50/60 Hz

Output signal range 85-132 VAC

Output channels per group Eight (8)

Output Voltage Range 85 to 132 Volts AC

Nominal output voltage 120 VAC

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

Power Consumption 315 mA from 5 V bus

Output Frequency 50/60 Hz

Output voltage range 85-132 VAC (47 to 63 Hz)

Operating Temperature 32 to 140 degrees Fahrenheit (0 to 60 degrees Celsius)

Output current per channel 0.5 mA

Output current 0.5 Amperes per point; 3.0 Amperes per module

Storage Temperature -40 to 185 degrees Fahrenheit (-40 to +85 degrees C)

Output current per module 3:00 AM

Maximum inrush current 20 A For 1 cycle

Humidity 5% to 95%

Current draw 315 mA

Current draw 315 mA (all outputs active)

On response time, typical 1 ms

Off response time, maximum ½ Cycle

On response time, maximum 1 ms

Output Voltage Drop 1.5 volt, maximum

Product Lifecycle Status Active

Off-state Leakage 2 mA maximum

The IC694MDL340 is part of Emerson Automation’s PACSystem RX3i Programmable Automation Controller (PAC) series, formerly by GE Intelligent Platforms GE IP). This module is specifically a discrete output module, designed with Sixteen (16) output channels rated 120 VAC and delivers an output voltage range of 85 - 132 VAC at a frequency of 47-63 Hz. The output channels of this module are arranged in Two (2) groups of Eight (8) outputs each, with optical isolation and group to group isolation rated at 250 VAC, continuous voltage, and 1500 VAC voltage for 1 minute. The output channels of this module are rated 0.5 Amperes per point while the maximum output current per group is 3 Amperes. The module’s minimum load current is 50 mA while the generated inrush current is rated 20 Amperes, maximum, at a duration of One (1) cycle. This module also has a backplane current draw of 315 mA when all output channels are energized. The output voltage drop being exhibited by this module is 1.5 Volts, maximum while the maximum leakage current is 2 mA at rated voltage. The module’s ON response time has a maximum delay of 1 ms while ½ delay is experienced during the transition to OFF state. This module is provided with Two (2) protective fuses with a rating of 3 Amperes and an equivalent catalog number for the replacement of GE Fanuc part number 44A724627-111. These pre-installed fuses are allocated One (1) per output group. Individual output channel indicators and an “F” LED is provided to this module for easy identification of the module’s operational state.

The GE Fanuc IC694MDL340 Output Module has a rated voltage of 120 Volts AC, an output current rating of 0.5 Amps per point, an inrush current of 20 Amps per cycle, and an output voltage range from 85 to 132 Volts AC at a frequency of 50 to 60 Hertz. The IC694MDL340 Output Module comes with 16 output points which are isolated into 2 groups of 8 points with a different common for each group. The groups can either each be applied on separate AC supply phases or they can all be used on the same power supply. Each group of output points has an RC snubber that guards the outputs from the noise that is caused by electrical transients on the power lines. The GE Fanuc IC694MDL340 Output Module has a high inrush current to allow the outputs to manage a wide selection of incandescent and inductive loads. This module can only be powered by an AC power source that is user-supplied in order to operate loads linked to outputs. The GE Fanuc IC694MDL340 Output Module from the RX3i PacSystem series has an operating temperature range between 32 and 140

degrees Fahrenheit (0 and 60 degrees Celsius) and a storage temperature range between -40 and 185 degrees Fahrenheit (-40 and 85 degrees Celsius). The module can tolerate a relative humidity level that is non-condensing in a range of 5% to 95%. It also has a vibration rating of 10 to 57 Hertz and 0.0524 millimeters (0.006 inches) of peak displacement. This module also has a shock rating of 15 G for 11 milliseconds.