GE RX3i PacSystem Series Service Manual

IC694ALG233

1. Description

The GE Fanuc IC694ALG233 input module is an analog current input module. There are 16 input channels on the IC694ALG233 input module.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**RX3i PacSystem**
Part	**Number IC694ALG233**
Product	**Type Analog current input module**
Input	**Channels 16**
Power	**Requirement 120 milliamps at 5 Volts DC**
External	**Supply Voltage Range 20 to 30 Volts DC**
Input	**Low-Pass Filter Response 23 Hertz**
Operating	**Temperature 0 to 60 degrees Celsius**
Relative	**Humidity 5 to 95%**
Storage	**Temperature -40 to 100 degrees Celsius**
The	**IC694ALG233 input module is an analog current input module. This input module provides 16 single-ended input channels. When installed in hazardous locations, the power to the IC694ALG233 input module must be turned off before it is replaced or wired. Furthermore, the module should not be connected to or disconnected from a PLC unless the main system power has been switched off. The IC694ALG233 input module draws 120 milliamps of current from the +5 Volts DC bus on the system backplane. In addition to loop currents, the IC694ALG233 input module draws 65 milliamps of current from a 24 Volts DC rated external supply.**

3. Product Information

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Technical specifications for IC694ALG233

Brand GE Fanuc

Series RX3i PacSystem

Part Number IC694ALG233

Product Type Analog current input module

Input Channels 16

Power Requirement 120 milliamps at 5 Volts DC

External Supply Voltage Range 20 to 30 Volts DC

Input Low-Pass Filter Response 23 Hertz

Operating Temperature 0 to 60 degrees Celsius

Relative Humidity 5 to 95%

Storage Temperature -40 to 100 degrees Celsius

The IC694ALG233 input module is an analog current input module. This input module provides 16 single-ended input channels. When installed in hazardous locations, the power to the IC694ALG233 input module must be turned off before it is replaced or wired. Furthermore, the module should not be connected to or disconnected from a PLC unless the main system power has been switched off. The IC694ALG233 input module draws 120 milliamps of current from the +5 Volts DC bus on the system backplane. In addition to loop currents, the IC694ALG233 input module draws 65 milliamps of current from a 24 Volts DC rated external supply. The external voltage supply ripple which the IC694ALG233 input module can tolerate is 10%. The voltage range for the external supply is 20 to 30 Volts DC. The rated input low-pass filter response is 23 Hertz.

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There are 16 channels total on the IC694ALG233 input module and each channel can be configured with the following input ranges: 0 to 20 milliamps, 4 to 20 milliamps enhanced, and 4 to 20 milliamps normal. High and low alarm limits can also be configured through software. For the 4 to 20 milliamps enhanced current range, a low alarm limit can be configured for the detection of an input current between 4 and 20 milliamps. This feature can be used to provide open-wire detection in 4 to 20 milliamps enhanced current rated applications. The IC694ALG233 input module also reports the module status and external power supply status to the system CPU by using the assigned program reference addresses. The IC694ALG233 input module can be installed in I/O slots that come with a serial connector. The IC694ALG233 input module supports hot removal and insertion. The firmware on the IC694ALG233 input module can be upgraded to enable new features.