GE Series 90-30 Series Service Manual

IC693DNS201

1. Description

The IC693DNS201 module is a DeviceNet slave module that is used with industrial programmable logic controllers. The module is produced by GE Fanuc and it is compatible with components from GE Series 90-30 and the PACSystems RX3i parts series.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Part	**Number IC693DNS201**
Operation	**mode Slave**
Compatibility	**Series 90-30, PACSystems RX3i**
Supported	**network DeviceNet**
Supported	**messaging connections 2 x DeviceNet I/O**
Maximum	**input/output data transfer 255 bytes**
Serial	**port RS-232**
Mounting	**Main rack, any slot (except slots 0 and 1)**
Backplane	**current consumption 450 milliAmps at 5 Volts DC (typical)**
Operating	**temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)**
Storage	**temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)**
The	**GE Fanuc IC693DNS201 module is a powerful communications module used with PACSystems RX3i components and programmable logic controllers from GE Series 90-30. The module is intended for communication on the DeviceNet network and it operates in the slave mode as a network server. The IC693DNS201 module is equipped with an RS-232 serial port that is used for firmware upgrades which are very important for the proper operation of the unit. For example, the**

3. Product Information

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Technical specifications for IC693DNS201

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Series Series 90-30

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Operation mode Slave

Compatibility Series 90-30, PACSystems RX3i

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Supported messaging connections 2 x DeviceNet I/O

Maximum input/output data transfer 255 bytes

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The GE Fanuc IC693DNS201 module is a powerful communications module used with PACSystems RX3i components and programmable logic controllers from GE Series 90-30. The module is intended for communication on the DeviceNet network and it operates in the slave mode as a network server. The IC693DNS201 module is equipped with an RS-232 serial port that is used for firmware upgrades which are very important for the proper operation of the unit. For example, the Bus of the DeviceNet module can use an external power source and sometimes it requires cycling of power to the programmable controller when the power is turned off and a firmware upgrade to both the master and slave modules on the network can resolve such an issue. The RS-232 serial port has 9 pins and a male D-connector that allow for a secured connection.

The IC693DNS201 DeviceNet communications module provides advanced fault reporting and it supports PLC registers. The module is mounted in the rack of the system and it can be installed into any slot, with the exception of slots 0 and 1. The IC693DNS201 module also supports up to 2 DeviceNet I/O messaging connections and it supports explicit messaging which is required for some applications. The module is made for handling standard data rates and it can transfer data up to 255 bytes either for input or output. The IC693DNS201 module has a typical backplane current consumption rating of 450 milliAmps at a voltage of 5 Volts DC. The specified operating temperature range for the Series 90-30 modules is 0 to 60 degrees Celsius or 32 to 140 degrees Fahrenheit while their storage temperature range is -40 to 85 degrees Celsius or -40 to 185 degrees Fahrenheit.