GE Genius I-O Series Service Manual

IC660BBD100

1. Description

The IC660BBD100 is a 115 VAC 8-Circuit Grouped I/O block from the GE Automation Intelligent Platform Series manufactured by GE Fanuc. The IC660BBD100 contains eight independent discrete circuits assembled in a single group with an operations rating of 115 volts AC. Each independent circuit is capable of functioning as an input, tri-state input, or output. A separate power supply is not required for this block as the power controller tapers off from the input/output device voltages wired to the t

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660BBD100**
Description	**Circuit I/O Block**
Circuits	**8**
Voltage	**115 Volts AC**
Isolation	**Voltage 1500 Volts**
Inputs	**16**
Dissipation	**28 watts**
Terminal	**board rating 5 Amperes**
Temperature	**0-60 degrees Celsius**
Frequency	**50/60 Hertz Description**
The	**GE Fanuc IC660BBD100 I/O block is a 115 Volts AC rated I/O block. It is a circuit I/O block that comes with 1 group of 8 circuits. Each circuit of the block can act as an input, an output, or a tristate input. It is made by GE Fanuc Automation in Series 90-70 and it is used in different industrial and manufacturing sectors. The running frequency of the block is 50 to 60 Hertz. This I/O block comes with 8 inputs and it can be connected to a programmer, controller, or monitoring device to monitor different configurations by using the port located on the top of the block. The block is also equipped with serial controller ports known as Ports 1 and 2. The IC660BBD100 I/O block is compatible with the Series 90-30**

3. Product Information

The IC660BBD100 is a 115 VAC 8-Circuit Grouped I/O block from the GE Automation Intelligent Platform Series manufactured by GE Fanuc. The IC660BBD100 contains eight independent discrete circuits assembled in a single group with an operations rating of 115 volts AC. Each independent circuit is capable of functioning as an input, tri-state input, or output. A separate power supply is not required for this block as the power controller tapers off from the input/output device voltages wired to the terminals of the IC660BBD100 block.

The dimensions are 8.83” (22.44cm) x 3.5” (8.89cm) x 3.94” (10.00cm) with a weight of 4lbs. (1.8kg). If a CPU, bus interface, or network cable experiences a communication failure, the Genius blocks are designed to be the reliable operations system hosted over a network – the Genius LAN. This network allows the blocks to communicate with the system CPU. If two or more CPUs are operating concurrently in a redundant configuration, the Genius blocks will automatically switch to a backup CPU if there is a communication failure with the main controller.

Considered "open equipment," Genius I/O blocks must be installed within a protective housing and should be located in an area with suitable cooling airflow that is airborne contaminant free. A temperature of zero to +60 C (32 to +140 F) is required for operation, and a temperature of -40 to +100 C (-40 to 212 F) is required for storage. Humidity should not be lower than 5% or exceed 95% (non-condensing). It is not necessary to remove field wiring or reconfigure the block when replacing the block’s electronics assembly with a compatible model. The IC660CBD100 is backward compatible with the IC660BBD100 and can be used as an alternative or replacement. The IC660BBD100 I/O block is a GE manufactured circuit I/O block. It runs with a nominal voltage of 115 Volts AC. Technical specifications for IC660BBD100

Brand GE Fanuc

Series Genius I-O

Part Number IC660BBD100

Description Circuit I/O Block

Circuits 8

Voltage 115 Volts AC

Isolation Voltage 1500 Volts

Inputs 16

Dissipation 28 watts

Terminal board rating 5 Amperes

Temperature 0-60 degrees Celsius

Frequency 50/60 Hertz Description

The GE Fanuc IC660BBD100 I/O block is a 115 Volts AC rated I/O block. It is a circuit I/O block that comes with 1 group of 8 circuits. Each circuit of the block can act as an input, an output, or a tristate input. It is made by GE Fanuc Automation in Series 90-70 and it is used in different industrial and manufacturing sectors. The running frequency of the block is 50 to 60 Hertz. This I/O block comes with 8 inputs and it can be connected to a programmer, controller, or monitoring device to monitor different configurations by using the port located on the top of the block. The block is also equipped with serial controller ports known as Ports 1 and 2. The IC660BBD100 I/O block is compatible with the Series 90-30 and Series 90-70 GE PLC systems. The block can be connected to a personal computer and it can be configured by using the Microsoft Windows XP operating system.

The GE Fanuc IC660BBD100 I/O block comes with different LED indicators on the front. It has an "I/O Enabled" LED and a "Unit OK" LED that illuminates when there is an application in progress. The block comes with exclusive features including selectable thresholds and advanced diagnostics. The input to the ground or the serial bus isolation of the block is 1500 Volts. The IC660BBD100 I/O block is able to dissipate 28 Watts of maximum heat when it is connected with 16 inputs at a full load. The terminal board current rating of the block is 5 Amps. The environmental temperature for proper operation should be set between 0 and 60 degrees Celsius.