GE Genius I-O Series Service Manual

IC660BBS101

1. Description

The IC660BBS101 is an isolated Genius I/O block by GE Fanuc with a power rating of 115 VAC or 125 VDC and an output current of 2 Amps with a frequency of between 47-63 Hz. The block weighs 4 lbs. with a block to block isolation of 1500 Volts. The block is fully compatible with handheld monitor IC660HHM501 and any GE Fanuc bus controller (PCIM or QBIM). Blocks numbered IC660CBS100, 1C660BBS100, and IC660BS101 are backward compatible with previous versions of this Genius I/O block.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660BBS101**
Product	**type I/O block**
Circuits	**8**
Voltage	**rating 115 Volts AC / 125 Volts DC**
Failed	**switch diagnostic No**
Dimensions	**224.4 x 84.8 x 99.3 millimeters**
Weight	**1.8 kilograms**
Operating	**temperature 32 to 140 degrees Fahrenheit**
Storage	**temperature -40 to 212 degrees Fahrenheit Description**
The	**IC660BBS101 I/O block is an 8-circuit Genius I/O block. The 8 circuits are divided into 4 groups which are isolated. Each group of 2 I/O circuits can operate at either 115 Volts AC or 125 Volts DC. The IC660BBS101 I/O block does not report failed switch diagnostics. It is suitable for applications where field wiring such as manual switches will be wired in parallel with the block outputs. The IC660BBS101 I/O block ignores the differences between the commanded and actual state of an internal switch. The control power for the IC660BBS101 I/O block is tapped from the I/O device voltages that are wired to the block terminals. The IC660BBS101 I/O block**

3. Product Information

The IC660BBS101 is an isolated Genius I/O block by GE Fanuc with a power rating of 115 VAC or 125 VDC and an output current of 2 Amps with a frequency of between 47-63 Hz. The block weighs 4 lbs. with a block to block isolation of 1500 Volts. The block is fully compatible with handheld monitor IC660HHM501 and any GE Fanuc bus controller (PCIM or QBIM). Blocks numbered IC660CBS100, 1C660BBS100, and IC660BS101 are backward compatible with previous versions of this Genius I/O block.

The IC660BBS101 block comes with an array of LEDs, each circuit having its own LED. Should the circuit be configured as an input, the corresponding LED will indicate threshold voltage. However, if the circuit is configured to act as an output, the LED will indicate that the circuit is in a state commanded by the CPU. I/O block modules can be configured or set to act as input only, output only, or a combination of the two. The default setting is input only. If configured or set as input only, then all circuits should be set to either regular or tristate inputs. If configured or set as output only, all block circuits should be output only.

The isolated I/O blocks have the capacity to perform diagnostic checks such as over-temperature, absence of a load, sudden shutdown of the I/O block, failed switch, and power overload. During field wiring, each terminal block can accommodate one AWG #12 or two AWG #14 wires. The minimum recommended wire size AWG #22. Spade or ring terminals of up to 0.27 inches in width can be accommodated by the terminal block. The user can connect a maximum of five power sources to the terminal assembly. The GE Fanuc IC660BBS101 I/O block is a Genius I/O block. The 8 circuits on the IC660BBS101 I/O block can operate at either 115 Volts AC or 125 Volts DC. Technical specifications for IC660BBS101

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Series Genius I-O

Part Number IC660BBS101

Product type I/O block

Circuits 8

Voltage rating 115 Volts AC / 125 Volts DC

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The dimensions of the GE Fanuc IC660BBS101 I/O block are 224.4 x 84.8 x 99.3 millimeters. The I/O block weighs 1.8 kilograms. The diagnostic LEDs provided on the block include a LED for displaying the whole I/O block's status and an LED for displaying if the I/O are enabled. An LED is also provided for each circuit on the I/O block. The block to block isolation rating is 1500 Volts. The peak heat dissipation rating is 16.8 Watts with all 8 I/O as inputs and 45.6 Watts with all 8 I/O as outputs operating at 2 Amps. The DC operating voltage for the IC660BBS101 I/O block is 105 to 132 Volts DC. The AC operating voltage for the module is 93 to 132 Volts AC. The typical input processing time is 2 milliseconds for AC voltage and 0.8 milliseconds for DC voltage.