GE Genius I-O Series Service Manual

IC660BBR101

1. Description

The IC660BBR101 is a Normally Open Relay Output Block manufactured by GE Fanuc. The block comes with 16 output circuits grouped into four groups, each with four outputs. Each output can be powered by either AC or DC. Because of its normally open design, the block’s contacts are separated by default until power is applied to close the gap existing between circuit components.

2. Specifications

Specification	Value
Manufacturer	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660BBR101**
Product	**Type Relay Output Block**
Contact	**Configuration Normally Open**
Number	**of Outputs 16**
Relay	**Type Fixed Coil and Moving Armature Relay**
Operating	**Frequency 47 to 63 Hertz**
Operating	**Voltage 93 to 132 Volts AC (115 to 230 Volts AC) or 185 to 265 Volts AC**
CPU	**Redundancy Supported Description**
The	**IC660BBR101 relay output block from GE Fanuc has 16 output circuits. It is part of the Genius I-O product line which includes both normally closed and normally open relay output blocks. The IC660BBR101 relay output block is a normally open output block, which means that all of its contacts are usually open. It is compatible with a wide variety of low-power devices that are used for machine control or indication applications such as other contactors, relays, or lamps. Any low-power control or indication device with an operating voltage range of 5 to 250 Volts AC or of 5 to 220 Volts DC are compatible with the IC660BBR101 relay output**

3. Product Information

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The relay block has a rated voltage of 115 VAC, which is the factory setting, to 230 VAC. The voltage selection is made possible by jumpers located on the block’s assembly. The block runs on a load current of 2 Amps. Output circuit group isolation is 1500VAC. IC660BBR101 is useful in a variety of low power applications such as relays, lamps, and contactors.

A handheld monitor is used for customization of the relay output. This includes setting up defaults for power-up output actions, reverting to factory settings if there is electrical communication interference, and selecting redundancy types. The block can alternatively be used as a bus switching module (BSM).

LEDs on the block display the status of the unit as well as input and output conditions. A blinking LED indicates a fault in the circuit. When the LED is OFF, the block is faulty and/or not drawing power. A simple LED ON indicates optimum performance. If a normally closed relay block is preferred, consider the IC660BBR100 relay output block. The GE Fanuc IC660BBR101 relay output block has 16 normally open outputs. It has a fixed coil and moving armature type of relay. Technical specifications for IC660BBR101

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Series Genius I-O

Part Number IC660BBR101

Product Type Relay Output Block

Contact Configuration Normally Open

Number of Outputs 16

Relay Type Fixed Coil and Moving Armature Relay

Operating Frequency 47 to 63 Hertz

Operating Voltage 93 to 132 Volts AC (115 to 230 Volts AC) or 185 to 265 Volts AC

CPU Redundancy Supported Description

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The GE Fanuc IC660BBR101 normally open relay output block has an individual LED indicator. The block also has an “I/O Enabled” LED and a “Unit OK” LED. This relay output block can tolerate a relative humidity level of 5 to 95% in its operation or storage environment as long as the humidity does not condense. The IC660BBR101 relay output block operates in a temperature range of 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) and it can be stored in a temperature range of -40 to 100 degrees Celsius (-40 to 212 degrees Fahrenheit). The relay type for this output block is the fixed coil and moving armature relay type. Its operating frequency is from 47 to 63 Hertz and its operating voltage is 93 to 132 Volts AC (115 to 230 Volts AC) or 185 to 265 Volts AC.