GE Genius I-O Series Service Manual

IC660EBD101

1. Description

GENIUS Electronic Assembly for BBD101 (EBD Only) 115VAC I/O LL IC660E IC660EB IC660EBD The IC660EBD101 is a component of the Genius Block I/O module from GE Fanuc Automation now under Emerson Automation. This component is an electronic assembly that is used to form a Genius I/O module, particularly paired with IC660TSD101 terminal base to form the IC660BBD101 115 VAC combination input and output block. Technical specifications for IC660EBD101

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Manufacturer	**GE Fanuc / Emerson Automation**
Part	**Number IC660EBD101Â**
Series	**Block I/O**
Part	**Number IC660EBD101**
Brand	**GE Intelligent Platforms/GE Fanuc**
Product	**Description Electronics Assembly**
Product	**Line Genius I/O**
Compatible	**I/O block IC660BBD101 Eight (8) circuit 115 VAC combination input and output block**
Product	**Type Electronics Assembly**
Compatible	**Terminal base IC660TBD101**
Block	**to Block Isolation 1500 V**
No.	**of channels Eight (8)**
Heat	**Dissipation 43.5 W with 8 outputs at 2 A**
Input	**current 6 mA**
Output	**current 2 Amperes**
Standby	**Power 8.5 W**
Nominal	**Operating voltage 115 VAC**
Operating	**Voltage 93 to 132 V AC**
Supply	**voltage range 93-132 VAC, 47-63 Hz**
Frequency	**47 to 63 Hertz**
Humidity	**5-95% non-condensing**
Operating	**Temperature 0 Degree to 60 Degree Celsius**
Operating	**vibration 5-10 Hz, 2” or 5.088 displacement**
Storage	**Temperature -40 Degree Celsius to 100 Degree Celsius**
Product	**lifecycle discontinued**
Non-Condensing	**Humidity 5 to 95 percent Description**
The	**IC**

3. Product Information

GENIUS Electronic Assembly for BBD101 (EBD Only) 115VAC I/O LL IC660E IC660EB IC660EBD The IC660EBD101 is a component of the Genius Block I/O module from GE Fanuc Automation now under Emerson Automation. This component is an electronic assembly that is used to form a Genius I/O module, particularly paired with IC660TSD101 terminal base to form the IC660BBD101 115 VAC combination input and output block. Technical specifications for IC660EBD101

Brand GE Fanuc

Series Genius I-O

Manufacturer GE Fanuc / Emerson Automation

Part Number IC660EBD101Â

Series Block I/O

Part Number IC660EBD101

Brand GE Intelligent Platforms/GE Fanuc

Product Description Electronics Assembly

Product Line Genius I/O

Compatible I/O block IC660BBD101 Eight (8) circuit 115 VAC combination input and output block

Product Type Electronics Assembly

Compatible Terminal base IC660TBD101

Block to Block Isolation 1500 V

No. of channels Eight (8)

Heat Dissipation 43.5 W with 8 outputs at 2 A

Input current 6 mA

Output current 2 Amperes

Standby Power 8.5 W

Nominal Operating voltage 115 VAC

Operating Voltage 93 to 132 V AC

Supply voltage range 93-132 VAC, 47-63 Hz

Frequency 47 to 63 Hertz

Humidity 5-95% non-condensing

Operating Temperature 0 Degree to 60 Degree Celsius

Operating vibration 5-10 Hz, 2” or 5.088 displacement

Storage Temperature -40 Degree Celsius to 100 Degree Celsius

Product lifecycle discontinued

Non-Condensing Humidity 5 to 95 percent Description

The IC660EBD101 is a component of the IC660BBD101 Eight (8) circuit 115 VAC combination input and output block I/O module. The IC660BBD101 is specifically an electronics assembly module that can be used as a replacement component to an existing installation of IC660BBD101. This electronics assembly component hosts the necessary circuitries that provide the capabilities of the module. The IC660EBD101 is essential a combination I/O module with channels configurable as input or output. The input and output channels available to this assembly are rated 115 VAC with input channels accepting input current of 6 mA while each output channel is capable of generating a maximum current of 2 A. This electronics assembly requires the use of a terminal base with catalog number IC660TSD101. The IC660EBD101 electronics assembly primary components include a Metal Oxide Varistor (MOV), a .1 µF capacitor an internal smart switch, and LED status indicators for each channel of the module. This component is also responsible for performing data exchange with the host controller as well as connectivity to the external power supply. The IC660EBD101 is capable of determining Overtemperature, short circuit condition, open-wire detection, no-load diagnostic, overload diagnostic, and failed switch diagnostic. This assembly supports wiring of non-tristate and tristate inputs while output circuits support sourcing configuration. This electronics assembly is also provided with an internally installed switch for module protection. The temperature requirements of this component include operating temperature of 0 to 60 Degree Celsius, the storage temperature of -40 Degree Celsius to 100 Degree Celsius with a relative humidity of 5-95%.

The GE Fanuc IC660EBD101 electronics assembly is a product of GE Intelligent Platforms/GE Fanuc Automation. It belongs to the Genius I/O block series and it has 8 circuits comprised of both inputs and outputs. The block has approximate dimensions of 8.83 x 3.50 x 3.94 inches and a weight of about 4 pounds. It also has I/O Enabled and Unit OK LEDs, as well as LED indicators on every circuit on the logic side of the switch and a 1500 Volts block-to-block isolation voltage rating with 16 Watts of heat dissipation with 8 inputs or 43 Watts of heat dissipation with 8 outputs at a current rating of 2 Amps. The standby power for all the block inputs and outputs off is 8.5 Watts, and the IC660EBD101 electronics assembly block comes with 93 to 132 Volts AC single-source operating voltage with a 47 to 63-Hertz frequency range. Other specifications of the IC660EBD101 electronics assembly block include an operating temperatures range from 0 to 60 degrees Celsius and a storage temperature range of -40 to 100 degrees Celsius. This block has a vibration rating of 5 to 10 Hertz and it can tolerate 5 to 95 percent non-condensing humidity. The GE Fanuc IC660EBD101 electronics assembly block has 8 circuits arranged in isolated groups and rated at a voltage of 115 Volts AC nominal. When any of the circuits are configured as an input, this circuit’s LED indicator shows the threshold voltage that is present at the input terminal. On the other hand, when any circuit is configured as an output, the indicator shows the condition that is commanded by the CPU.