GE Genius I-O Series Service Manual

IC660EBD024

1. Description

GENIUS Electronic Assembly for BBD024 (EBD Only) 12/24Vdc Source IC660 IC660EB IC660EBD

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660EBD024**
Product	**Line Genius I/O**
Block	**to Block Isolation 850 V**
Weight	**4 lbs (1.8 kg)**
Min.	**Heat Dissipation 11 Watts with 8 inputs**
Max.	**Heat Dissipation 18 Watts with 32 outputs**
Single	**Source Operating Voltage 10 to 30 V DC**
Operating	**Temperature 0 to 60 degrees Celsius**
Storage	**Temperature -40 to 100 degrees Celsius**
Non-Condensing	**Humidity 5 to 95 percent**
Max.	**Output Current 0.5 A per circuit**
Output	**Diagnostics Switch Fault**
Required	**DC Power 150 mA (typical)**
Max.	**Required DC Power 300 mA Description**
The	**IC660EBD024 DC 32-circuit discrete I/O electronics assembly that is manufactured by GE Intelligent Platforms/GE Fanuc as part of the Genius I/O series. This unit has 32 circuits which are isolated inputs and outputs. It weighs approximately 1.8 kilograms or 4 pounds and it has a block to block isolation of 850 Volts with a minimum heat dissipation of 11 Watts with 8 inputs and a minimum dissipation of 18 Watts with**

3. Product Information

GENIUS Electronic Assembly for BBD024 (EBD Only) 12/24Vdc Source IC660 IC660EB IC660EBD

Download our IC660EBD024 Wiring Diagram The GE Fanuc IC660EBD024 electronics assembly is an electronics assembly manufactured by GE Intelligent Platforms/GE Fanuc Automation as part of the Genius I/O series. The electronics assembly features 32 circuits that are isolated I/O. Technical specifications for IC660EBD024

Brand GE Intelligent Platforms/GE Fanuc

Series Genius I-O

Part Number IC660EBD024

Product Line Genius I/O

Block to Block Isolation 850 V

Weight 4 lbs (1.8 kg)

Min. Heat Dissipation 11 Watts with 8 inputs

Max. Heat Dissipation 18 Watts with 32 outputs

Single Source Operating Voltage 10 to 30 V DC

Operating Temperature 0 to 60 degrees Celsius

Storage Temperature -40 to 100 degrees Celsius

Non-Condensing Humidity 5 to 95 percent

Max. Output Current 0.5 A per circuit

Output Diagnostics Switch Fault

Required DC Power 150 mA (typical)

Max. Required DC Power 300 mA Description

The IC660EBD024 DC 32-circuit discrete I/O electronics assembly that is manufactured by GE Intelligent Platforms/GE Fanuc as part of the Genius I/O series. This unit has 32 circuits which are isolated inputs and outputs. It weighs approximately 1.8 kilograms or 4 pounds and it has a block to block isolation of 850 Volts with a minimum heat dissipation of 11 Watts with 8 inputs and a minimum dissipation of 18 Watts with 32 outputs at a current rating of 5 Amps. It has a single-source operating voltage range of 10 to 30 Volts DC (with a 12/24 Volts DC supply) orof 4.9 to 5.3 Volts DC (with a 5 Volts DC supply) for the sink model only. The required DC power current for this block is 150 milliamps typical and 300 milliamps maximum. Other output specifications of the GE Fanuc IC660EBD024 electronics assembly include a maximum steady-state output current of 0.5 Amps per circuit, a total block output current of 16 Amps, a maximum output turn-on delay of 0.5 microseconds, and switch fault output diagnostics.

The GE Fanuc IC660EBD024 electronics assembly operates within an environmental temperature range of 0 to 60 degrees Celsius, it has a storage temperature range of -40 to 100 degrees Celsius, and it has a non-condensing relative humidity tolerance range of 5 to 95 percent. This electronics assembly's 32 identical input and output circuits are each capable of being configured as either inputs or outputs. When the block is set as a combination block, the output feedback is offered in corresponding input references. The 32-circuit DC source input and output block features all output devices that are connected to the negative side of the power supply. The inputs control the positive power supply side while for the outputs, the on-state condition is Logic 1 and the off-state condition is Logic 0.