GE Genius I-O Series Service Manual

IC660EBD025

1. Description

GENIUS Electronic Assembly for BBD025 (EBD Only)12/24Vdc Sink I/O IC660 IC660EB IC660EBD The GE Fanuc IC660EBD025 electronics assembly block is manufactured by GE Fanuc Automation. It belongs to the Genius I/O series and it has two 32-circuit DC blocks rated for 12/24 Volts DC. Technical specifications for IC660EBD025

2. Specifications

Specification	Value
Brand	**GE Intelligent Platforms/GE Fanuc Automation**
Series	**Genius I-O**
Part	**Number IC660EBD025Â**
Product	**Line Genius I/O**
Product	**Type Electronics Assembly**
Circuits	**2, 32-circuit**
Block	**to Block Isolation 850 V**
Operating	**Voltage 4.9 to 5.3 V DC, 5 V DC supply**
Maximum	**Output Current (Steady State) 0.5 Amps**
Maximum	**Inrush Current 4 Amps up to 10 microseconds**
Block	**Output Current 16 Amps**
Max.	**Output turn-on delay 0.5 microseconds**
Operating	**Temperature 0 to 60 degress Celsius**
Output	**Diagnostic Switch Fault**
Storage	**Temperature -40 to 100 degrees Celsius**
Non-Condensing	**Humidity 5 to 95 percent Description**
The	**GE Fanuc IC660EBD025 electronics assembly is an electronics assembly manufactured by GE Fanuc as part of the Genius I/O series. This electronics assembly has two 32-circuit DC blocks, including 32 circuits rated at 12/24 Volts DC on a source block to provide current to the field output devices and 32 circuits rated at 5, 12, or 24 Volts DC on a sink block that receives current from the field**

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Non-Condensing Humidity 5 to 95 percent Description

The GE Fanuc IC660EBD025 electronics assembly is an electronics assembly manufactured by GE Fanuc as part of the Genius I/O series. This electronics assembly has two 32-circuit DC blocks, including 32 circuits rated at 12/24 Volts DC on a source block to provide current to the field output devices and 32 circuits rated at 5, 12, or 24 Volts DC on a sink block that receives current from the field output devices. Both the IC660EBD025 electronics assembly runs at a nominal voltage rating of 12 to 24 Volts DC with the sink version that is 5 Volts TTL-compatible. The 32-circuit DC input and output blocks interface with a variety of input devices like the 2-wire and 3-wire electronic proximity switches. The outputs can provide low-power control and indicating devices such as contactors, lamps, and relays with power. The IC660EBD025 electronics assembly's circuits can all be configured to be either outputs or inputs.

While using the GE Fanuc IC660EBD025 electronics assembly, the output circuits can be connected directly to the input circuits without using the logic state inversion or the other components. This flexibility offers efficiency to industrial applications. Every circuit comes with built-in protection when they are used as outputs to protect the device while enabling short-time surges. It also offers protection against the shorted loads caused by the wiring errors. It also features a block LED that shows proper block operation as well as CPU communications. The fault reporting of the GE Fanuc IC660EBD025 electronics assembly can be disabled or enabled circuit by circuit. Other configurable features of this block include the output powerup default settings, CPU redundancy type, and the bus switching module control.