GE Genius I-O Series Service Manual

IC660TBD025

1. Description

The IC660TBD025 Terminal Assembly belongs to GE Fanuc Genius I/O series of products. It is used for the field wiring of the I/O block that it is connected to. It has a compact and durable design. It is meant to be installed between the IC660BBD025 I/O Block and IC660EBD025 Electronics Assembly in the system. The IC660TBD025 Terminal Assembly also performs the backplane communication and module mounting functions for the system. This module expands the I/O capabilities within the applications tha

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD025**
Block	**Type DC 32 circuit discrete input and output**
Rated	**Voltage 5/12/24 Volts DC**
Operating	**Voltage 4.9 to 5.3 Volts DC**
Ripple	**10% maximum (12/24 Volts) / 1% maximum (5 Volts)**
Power	**Supply Dropout Time 4 milliseconds at 12 Volts / 20 milliseconds at 24 Volts**
Required	**DC Power 150 milli Amps typical / 300 milli Amps maximum**
Heat	**Dissipation (Maximum) 18 Watts maximum**
Block	**to Block Isolation 850 Volts**
Dimensions	**(HxWxD) 224 x 90 x 112 millimeters (8.8 x 3.5 x 4.4 inches)**
Weight	**1.8 kilograms (4 pounds)**
Operating	**Temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)**
Storage	**Temperature -40 to 100 degrees Celsius (-40 to 212 degrees Fahrenheit)**
Description	
The	**GE Fanuc IC660TBD025 terminal assembly belongs to the Genius series of I/O products that can enhance the whole PLC system and that offer great features for machine control and configuration. The terminal assembly features discrete input and output blocks, it has 3**

3. Product Information

The IC660TBD025 Terminal Assembly belongs to GE Fanuc Genius I/O series of products. It is used for the field wiring of the I/O block that it is connected to. It has a compact and durable design. It is meant to be installed between the IC660BBD025 I/O Block and IC660EBD025 Electronics Assembly in the system. The IC660TBD025 Terminal Assembly also performs the backplane communication and module mounting functions for the system. This module expands the I/O capabilities within the applications that it handles. Its terminals ensure that there is efficient electrical contact with wires and conductors and a perfect mechanical clamp. It is supplied with all the required accessories, tools, and components to make the installation and maintenance processes easy.

The IC660TBD025 Terminal Assembly consists of screw-type terminals. It is recommended to avoid applying more than 5.25 Volts to the +5 Volts terminals of the module. The field device connections are done by using Terminals 5 through 32. If the field device must be configured to a sink block, one wire of the field device must be connected to one of the terminals numbered between 10 and 41 and the other wire can be connected to the DC power. The storage temperature range of the IC660TBD025 Terminal Assembly is -40 to 100 degrees Celsius. It is advised to avoid touching the connector pins of the terminal assembly since they may cause electric shock. It is compatible with the IC660BBD025 I/O Block and IC660EBD025 Electronics Assembly. The compatible electronics assembly must have the same ratings as the terminal assembly, including the voltage, number of circuits, and wiring configuration. This terminal assembly module is a distribution terminal board that expands the field wiring within the panel. The IC660TBD025 terminal assembly is a Genius I/O terminal assembly manufactured by GE Fanuc. The terminal assembly has a maximum output current of 0.5 Amps per circuit and a maximum inrush current of 4 Amps for up to 10 milliseconds. Technical specifications for IC660TBD025

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD025

Block Type DC 32 circuit discrete input and output

Rated Voltage 5/12/24 Volts DC

Operating Voltage 4.9 to 5.3 Volts DC

Ripple 10% maximum (12/24 Volts) / 1% maximum (5 Volts)

Power Supply Dropout Time 4 milliseconds at 12 Volts / 20 milliseconds at 24 Volts

Required DC Power 150 milli Amps typical / 300 milli Amps maximum

Heat Dissipation (Maximum) 18 Watts maximum

Block to Block Isolation 850 Volts

Dimensions (HxWxD) 224 x 90 x 112 millimeters (8.8 x 3.5 x 4.4 inches)

Weight 1.8 kilograms (4 pounds)

Operating Temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)

Storage Temperature -40 to 100 degrees Celsius (-40 to 212 degrees Fahrenheit)

Description

The GE Fanuc IC660TBD025 terminal assembly belongs to the Genius series of I/O products that can enhance the whole PLC system and that offer great features for machine control and configuration. The terminal assembly features discrete input and output blocks, it has 32 available circuits, and it also has a rated voltage of 5, 12, or 24 Volts DC. The operating voltage of the IC660TBD025 terminal assembly is 4.9 to 5.3 Volts DC. In addition to that, the unit has 10% ripple (maximum) for 12 and 24 Volts DC and a maximum ripple of 1% for 5 Volts DC. The dropout time for the power supply is 4 milliseconds at 12 Volts and 20 milliseconds at 24 Volts. The DC power requires a current of 150 milliamps typical and 300 milliamps maximum. The terminal assembly weighs 1.8 kilograms (4 pounds) and it measures 224 x 90 x 112 millimeters or 8.8 x 3.5 x 4.4 inches.

The GE Fanuc IC660TBD025 terminal assembly is adapted for operation in conditions that are typical for industrial environments and it is resistant to common conditions like humidity, shock, vibration and other. The IC660TBD025 terminal assembly has a power consumption rating of 18 Watts at a current rating of 5 Amps and it includes an input impedance of 3.3 kiloohms. The unit has selectable input filter times from 1 to 100 milliseconds and 1.4 milliseconds of input processing time. The output turn-on delay is 0.5 milliseconds maximum and the unit has total block output current of 16 Amps. The IC660TBD025 terminal assembly also features a maximum inrush current of 4 Amps for up to 10 milliseconds and the switch fault capability for the diagnostics for the output.