GE Genius I-O Series Service Manual

IC660TBD023

1. Description

GENIUS Terminal Assembly for (TBD Only) TBD023 for IC660BBD023 IC660T IC660TB IC660TBD

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD023**
Block	**Type 16 circuit discrete input and output**
Rated	**Voltage 24 Volts DC**
Operating	**Voltage 18 to 30 Volts DC**
Ripple	**10% maximum**
Power	**Supply Dropout Time 10 milliseconds (DC)**
Required	**DC Power 150 milliamps typical / 300 milliamps maximum**
Heat	**Dissipation (Maximum) 68.8 Watts with 16 outputs on at 2 Amps**
Block	**to Block Isolation 1500 Volts for 1 minute**
Dimensions	**(HxWxD) 224 x 88 x 100 millimeters (8.8 x 3.5 x 3.9 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	**IC660TBD023 terminal assembly is an industrial terminal assembly designed by GE Fanuc in the Genius I/O series. This Genius I/O terminal assembly is intended for use with the following block models: the IC660T, the IC660TB, and the IC660TBD. The terminal assembly is used with block types operating on DC power**

3. Product Information

GENIUS Terminal Assembly for (TBD Only) TBD023 for IC660BBD023 IC660T IC660TB IC660TBD

The IC660TBD023 Terminal Assembly is a durable and safe terminal assembly made by GE Fanuc in the Genius I/O series. It acts as the wiring interface between the I/O block and field modules in a Genius I/O control system. It comes with a small and rugged design. The location of this terminal block is between its compatible I/O block and electronics assembly. The IC660TBD023 Terminal Assembly can be screwed into the block so that it can resist the vibrations that occur during operation. It provides extra wiring terminals to expand the field wiring. It also helps the users to gain more space and flexibility in the panel with its space-saving design.

The IC660TBD023 Terminal Assembly has a box-style design. Its standard screw and clamp-type terminals can be adjusted with a Phillips or flathead screwdriver. The terminal can accept 1 AWG #12 wire or 2 AWG #14 wires. Users can connect the DC power source to Terminals 5 to 22 of the terminal assembly. The approximate weight of the IC660TBD023 terminal assembly is 2 pounds. It is a separate terminal assembly that hosts all of the field wiring for an I/O module. The I/O block can be configured as a BSM controller by attaching the BSM module as a load to Circuit 1. The pigtail cable of the BSM module must be connected to Terminal 6 and the other wire must be connected to the DC+. Make sure not to touch the connector pins to avoid electric shock and damages. This modular and compact terminal assembly is designed to make I/O wiring easy and safe. The GE Fanuc Genius I/O terminal assembly that is known as the IC660TBD023 terminal assembly is designed for high-performance systems and it has a specified operating voltage range of 18 to 30 Volts DC. The assembly features a block type with 16 discrete I/O and it has a dropout time of 10 milliseconds for DC operation. Technical specifications for IC660TBD023

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD023

Block Type 16 circuit discrete input and output

Rated Voltage 24 Volts DC

Operating Voltage 18 to 30 Volts DC

Ripple 10% maximum

Power Supply Dropout Time 10 milliseconds (DC)

Required DC Power 150 milliamps typical / 300 milliamps maximum

Heat Dissipation (Maximum) 68.8 Watts with 16 outputs on at 2 Amps

Block to Block Isolation 1500 Volts for 1 minute

Dimensions (HxWxD) 224 x 88 x 100 millimeters (8.8 x 3.5 x 3.9 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 IC660TBD023 terminal assembly is an industrial terminal assembly designed by GE Fanuc in the Genius I/O series. This Genius I/O terminal assembly is intended for use with the following block models: the IC660T, the IC660TB, and the IC660TBD. The terminal assembly is used with block types operating on DC power sources with input voltage ratings of 24 Volts and it includes 16 sink inputs and outputs. The IC660TBD023 terminal assembly has separate LED indicators on the load side for each circuit and it comes with standard LED indicators on the block. The terminal dissipates heat at a rate of 68.8 Watts and it has a 1500 Volts block to block isolation. The terminal has a power supply dropout time of 10 milliseconds and it requires a DC power current rating of 150 milliamps typical and 300 milliamps maximum.

The GE IC660TBD023 terminal assembly has a standard input voltage that includes a voltage range of 0 to 8 Volts DC when the input is on and a voltage range of 17 to 24 Volts DC when the input is off. The component includes a typical input impedance of 1.8 kiloohms. The time required for the selectable input filter is 5 to 100 milliseconds and the IC660TBD023 terminal assembly has diagnostic capabilities for overtemperature, failed switch part, and open wire situations. For the output, the terminal assembly has an output current of 2 Amps per circuit and a block output current of 15 Amps at a temperature of 35 degrees Celsius. The maximum switching frequency is once per second and the output turn-on delay time is 1 millisecond. When a load is not enabled, the suggested load is 50 milliamps.