GE Genius I-O Series Service Manual

IC660TBD024

1. Description

GENIUS Terminal Assembly for (TBD Only) TBD024 for IC660BBD024 IC660T IC660TB IC660TBD

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD024**
Block	**Type DC 32 circuit discrete input and output**
Rated	**Voltage 12/24 Volts DC**
Operating	**Voltage 10 to 30 Volts DC**
Ripple	**10% maximum**
Power	**Supply Dropout Time 4 milliseconds at 12 Volts / 20 milliseconds at 24 Volts**
Required	**DC power 150 milliamps typical / 300 milliamps 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	**IC660TBD024 terminal assembly is part of the Genius I/O series and it is manufactured by GE Fanuc. The terminal is designed for use with DC power and it includes 32 discrete inputs and outputs. The operating voltage range of the unit is 10 to 30 Volts DC while it rated voltage is 12 or 24 Volts DC. The blo**

3. Product Information

GENIUS Terminal Assembly for (TBD Only) TBD024 for IC660BBD024 IC660T IC660TB IC660TBD

The IC660TBD024 Terminal Assembly is a screw-type Genius I/O terminal assembly module from GE Fanuc. It has a compact and rugged design. It is located between the IC660EBD024 Electronics Assembly and the IC660BBD024 I/O Block in the Genius I/O system. It is also known as the generic wiring base of the I/O module. This terminal assembly is the wiring interface between the I/O block and field devices. Its terminals are electrically connected together internally. The conductors and wires can be easily inserted into the terminal through the sloped entrance plane and the appropriately sized entrance holes. The IC660TBD024 Terminal Assembly makes the wiring and installation process of an I/O system clear and safe.

The IC660TBD024 Terminal Assembly weighs 2 pounds. It has an EEPROM unit to store the configuration data including the device number, reference address, baud rate, and details of the BSM controller. It is not necessary to reconfigure the module when the electronics assembly is removed or replaced. It hosts all of the field wiring and power connections. The I/O block bus can be directly connected to this terminal assembly. The IC660TBD024 Terminal Assembly is compatible with the GE IC660BBD024 I/O Block and IC660EBD024 Electronics Assembly. The source type block's outputs must be connected to the negative side of the power supply and the inputs can be connected to the positive side. It can assure the data integrity of the critical processes during replacement or renewal. This terminal assembly can be used to perform efficient field-wiring while ensuring safety and efficiency.

The IC660TBD024 Genius I/O terminal assembly is an industrial automation component with a rated voltage of 12 or 24 Volts DC. The terminal assembly is made by GE Fanuc and it is used in different industries. The IC660TBD024 terminal assembly has a maximum ripple of 10% and 18 Watts of rated heat dissipation. Technical specifications for IC660TBD024

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD024

Block Type DC 32 circuit discrete input and output

Rated Voltage 12/24 Volts DC

Operating Voltage 10 to 30 Volts DC

Ripple 10% maximum

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

Required DC power 150 milliamps typical / 300 milliamps 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 IC660TBD024 terminal assembly is part of the Genius I/O series and it is manufactured by GE Fanuc. The terminal is designed for use with DC power and it includes 32 discrete inputs and outputs. The operating voltage range of the unit is 10 to 30 Volts DC while it rated voltage is 12 or 24 Volts DC. The block to block isolation rating is 850 Volts while its maximum heat dissipation rating is 18 Watts. The unit has a weight of 1.8 kilograms or 4 pounds and dimensions of 224 x 90 x 112 millimeters (8.8 x 3.5 x 4.4 inches). The operating temperature range of the IC660TBD024 terminal assembly is from 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit) and its temperature range for storage should be between -40 and 100 degrees Celsius (-40 and 212 degrees Fahrenheit).

The IC660TBD024 terminal assembly is compatible with several Genius I/O devices that include the code "IC660" in the part number and it can be combined with a variety of devices that are used for the input of data. The supported input devices include proximity switches with either 2 or 3 wires, contactors, lamps, and relays. The IC660TBD024 terminal assembly has configurable features like controls for the bus switching module, output pulse test capabilities, output powerup settings, and a selectable input filter. The terminal assembly features a typical input impedance of 3.3 kiloohms and various selectable times for the input filter. The time needed for input processing is 1.4 milliseconds. The IC660TBD024 terminal assembly has an output voltage drop of 2 Volts at a current inrush rating of 4 Amps. The maximum output current is 0.5 Amps per circuit.