GE Genius I-O Series Service Manual

IC660TBD022

1. Description

The IC660TBD022 Terminal Assembly belongs to the Genius I/O series of products that are manufactured by GE Fanuc. It is the field wiring interface between the I/O block and field devices in a Genius I/O setup. The IC660TBD022 Terminal Assembly comes with a small, rugged, and durable design. It has cable connectors that make it possible to easily attach the communication cables. The IC660TBD022 Terminal Assembly expands the I/O capabilities within the field control station. Its screw-type termina

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD022**
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)**
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	**IC660TBD022 terminal assembly is a terminal assembly that is designed and manufactured by GE Fanuc. This Genius I/O GE terminal assembly has 6 analog input circuits with an accuracy of 0.1%. The alarm limits are programmable for these circuits and all of the faults are displayed by the hand-held monitor and the computer which are both typically used for programming purposes**

3. Product Information

The IC660TBD022 Terminal Assembly belongs to the Genius I/O series of products that are manufactured by GE Fanuc. It is the field wiring interface between the I/O block and field devices in a Genius I/O setup. The IC660TBD022 Terminal Assembly comes with a small, rugged, and durable design. It has cable connectors that make it possible to easily attach the communication cables. The IC660TBD022 Terminal Assembly expands the I/O capabilities within the field control station. Its screw-type terminals have extremely simple tightening and loosening mechanisms which can be easily performed by a screwdriver. This compact terminal assembly module optimizes the installation space in the panel while reducing the wiring costs.

The IC660TBD022 Terminal Assembly comes with a voltage rating of 24 Volts DC. Its screw-type terminals can accept a minimum wire size of AWG #22. The terminals can have spade or ring terminals with a maximum width of 0.27 inches. The I/O block offers automatic diagnostics facilities to detect open wire, no-load, overload, and short circuit conditions. By using this terminal assembly, electrical malfunctioning in a circuit can be easily identified and addressed. The tolerable relative humidity level of the IC660TBD022 Terminal Assembly is 5% to 95% (non-condensing.) It acts as the wiring interface between the IC660BBD20 I/O module and field devices. Its electrical and mechanical keying features ensure that it only accepts the compatible electronics assembly which shares its ratings. The electronics assembly of the system must be replaced when the terminal assembly or I/O block is replaced or upgraded. This module is located in between the I/O block and electronics assembly. It has high levels of connectivity and durability. The IC660TBD022 terminal assembly is a Genius I/O component that is manufactured by GE Fanuc. This terminal assembly has 16 discrete inputs and outputs and it operates on 24 Volts DC. The terminal as a 10% ripple and 10 milliseconds of DC power supply dropout time. Technical specifications for IC660TBD022

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD022

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)

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 IC660TBD022 terminal assembly is a terminal assembly that is designed and manufactured by GE Fanuc. This Genius I/O GE terminal assembly has 6 analog input circuits with an accuracy of 0.1%. The alarm limits are programmable for these circuits and all of the faults are displayed by the hand-held monitor and the computer which are both typically used for programming purposes. The IC660TBD022 terminal assembly weighs around 1.8 kilograms and its dimensions include a height of 224 millimeters (8.8 inches), a width of 88.9 millimeters (3.5 inches), and a depth of 100 millimeters (3.9 inches). The terminal assembly includes LED signalization at the I/O block and it supports BSM control. The heat dissipation rating of the component is 12 Watts maximum.

The IC660TBD022 terminal assembly comes with a diagnostics features that includes numerous messages about the input states. For example, the terminal will trigger a message if current is below 2 milliamps or if the high alarm is above the allowed level. This terminal assembly model needs voltage within the range of 93 to 132 Volts AC and 105 to 145 Volts DC. This means that the unit supports operation on both AC and DC power. The terminal assembly is part of the current source input block and it has a 10% ripple along with frequency rating of 47 to 63 Hertz. The IC660TBD022 terminal assembly enables the customization of the way the system handles faults. This means that the fault reports can be turned off for different circuits, depending on the requirements. However, the message about possible faults in the circuits will be sent to the host computer even if the fault reporting option is turned off.