GE Genius I-O Series Service Manual

IC660TBD110

1. Description

The IC660TBD110 Terminal Assembly belongs to the GE Fanuc Genius I/O series of modules. It comes with screw type terminals which accept a single wire with a gauge up to AWG #14. It acts as the wiring base for various field control I/O modules. This module is slotted to allow for the keying of the compatible electronics assembly. It operates reliably in an ambient temperature range from 0 to 60 degrees Celsius. It offers an EEPROM unit that can be used to store the configuration details of an ap

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD110**
Block	**Type 16 circuits, inputs only**
Rated	**Voltage 115 Volts AC Volts**
Operating	**Voltage 93 to 132 Volts AC**
Frequency	**47 to 63 Hertz**
Power	**Supply Dropout Time 1 cycle**
Heat	**Dissipation (Maximum) 28 Watts maximum**
Input	**to Ground Isolation 1500 Volts**
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	**IC660TBD110 terminal assembly is a Genius I/O component manufactured by GE Fanuc for control and automation applications. The terminal assembly is compatible with several GE terminal block models and it includes 16 circuits with only inputs. The IC660TBD110 terminal assembly is equipped with status LEDs and with LEDs for each circuit. The circuit LED indicators are located on the logic side and they reflect each input**

3. Product Information

The IC660TBD110 Terminal Assembly belongs to the GE Fanuc Genius I/O series of modules. It comes with screw type terminals which accept a single wire with a gauge up to AWG #14. It acts as the wiring base for various field control I/O modules. This module is slotted to allow for the keying of the compatible electronics assembly. It operates reliably in an ambient temperature range from 0 to 60 degrees Celsius. It offers an EEPROM unit that can be used to store the configuration details of an application. The IC660TBD110 Terminal Assembly is a box style module which comes with a compact design. It ensures a simple wiring process to provide reduced wiring and installation costs.

The IC660TBD110 Terminal Assembly is specifically designed for use with an IC660BBD110 input block and an IC660EBD110 electronics assembly. Terminals 5 to 32 are reserved for connecting the field devices to the block. Terminals 1 and 2 can be used for connecting serial devices and Terminals 3 and 4 are reserved for shield in and shield out connections, respectively. The approximate weight of the IC660TBD110 Terminal Assembly is 2 pounds. The minimum recommended size for the wires is AWG #20. It accepts a 115 Volts AC source as the power supply. During the power supply wiring, connect the positive side of the source to the H terminal and the neutral to the N terminal. The configuration settings such as the device number, baud rate, input filter time, and reference address are stored inside the terminal assembly. The permanent bus connections can be made directly to the terminal assembly. In order to remove the terminal assembly while maintaining the integrated data on the bus, an intermediate connector must be used. The IC660TBD110 terminal assembly belongs to the Genius I/O series. The assembly includes a block with 16 circuits and it is intended only for inputs. The assembly features an operating voltage range of 93 to 132 Volts AC and a frequency of 47 to 63 Hertz. Technical specifications for IC660TBD110

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD110

Block Type 16 circuits, inputs only

Rated Voltage 115 Volts AC Volts

Operating Voltage 93 to 132 Volts AC

Frequency 47 to 63 Hertz

Power Supply Dropout Time 1 cycle

Heat Dissipation (Maximum) 28 Watts maximum

Input to Ground Isolation 1500 Volts

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 IC660TBD110 terminal assembly is a Genius I/O component manufactured by GE Fanuc for control and automation applications. The terminal assembly is compatible with several GE terminal block models and it includes 16 circuits with only inputs. The IC660TBD110 terminal assembly is equipped with status LEDs and with LEDs for each circuit. The circuit LED indicators are located on the logic side and they reflect each input circuit’s state. The terminal has an input to ground isolation voltage of 1500 Volts and operating voltage of 93 to 132 Volts AC. The input frequency of the product is 47 to 63 Hertz and its dropout time for the power supply includes 1 cycle with 16.7 milliseconds of dropout time at 60 Hertz and 20 milliseconds of dropout time at 50 Hertz.

The IC660TBD110 terminal assembly has an input processing time of 1 millisecond without a selectable filter time and it has the ability to determine a filter time within the range of 10 to 100 milliseconds. Also, the terminal includes diagnostics features for inputs like open wire detection and short circuit detection. The IC660TBD110 terminal assembly has a programmable threshold for the input off-state/on-state within the range of 25 to 85% and a typical input impedance of 11.6K Ohms. The input with an open wire has the same threshold as input off-state/on-state and the input with a shortened wire has a fixed threshold of 10 to 90%. The terminal block requires a current of 80 milliamps and it has an input circuit current of 200 milliamps. The terminal board of the IC660TBD110 terminal assembly is rated at 5 Amps for its input or feedthrough current.