GE Genius I-O Series Service Manual

IC660TSD021

1. Description

The GE Fanuc Genius I/O IC660TSD021 Terminal Assembly is a state-of-the-art, microprocessor-based, solid-state wiring terminal accessory that is designed and built by GE Fanuc for the connection of incoming wires from sensors and indicators in the field and the outgoing wires to the actuators on indicators that will be controlled by the PLC. The GE Fanuc IC660TSD021 Terminal Assembly features 16 independent connection points, and it uses screw-type terminals for connecting all the inputs and out

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TSD021**
Product	**Type Terminal assembly**
Compatibility	**IC660BBD021 I/O Block**
Operating	**Temperature 32 to 140 degrees Fahrenheit**
Compatible	**Electronics Assembly IC660EBD021**
Solid-State	**Sensors Supported**
Relative	**Humidity 5 to 95%**
Input	**Filter Time 5 to 100 milliseconds Description**
The	**GE Fanuc IC660TSD021 terminal assembly is the terminal assembly for an I/O block from GE Fanuc which has the catalog number IC660BBD021. The I/O block is a 24/48 Volts DC rated sink I/O block with 16 circuits. The electronics assembly for the IC660BBD021 I/O block has the catalog number IC660EBD021 and it is compatible with the IC660TSD021 terminal assembly. The IC660BBD021 I/O block is designed by GE Fanuc to be used with 3-wire electromechanical and solid-state sensors. The diagnostics features on the IC660BBD021 I/O block include no-load detection, failed switch detection, electronics short-circuit protection, and overtemperature protection. The configurab**

3. Product Information

The GE Fanuc Genius I/O IC660TSD021 Terminal Assembly is a state-of-the-art, microprocessor-based, solid-state wiring terminal accessory that is designed and built by GE Fanuc for the connection of incoming wires from sensors and indicators in the field and the outgoing wires to the actuators on indicators that will be controlled by the PLC. The GE Fanuc IC660TSD021 Terminal Assembly features 16 independent connection points, and it uses screw-type terminals for connecting all the inputs and outputs that need to be hardwired to the PLC. The manufacturer recommends installing this terminal assembly inside a protective panel board. The operating temperature range is between 32 and 140 degrees Fahrenheit (0 and 60 degrees Celsius). Small external loads in fields such as the typical solenoid valves, LED indicators, or relay contacts can be supplied with power directly from the module. The output current rating of the GE Fanuc IC660TSD021 Terminal Assembly is 2 Amps per circuit, with a maximum heat dissipation rating of 68.8 Watts. Some of the diagnostics features available in this terminal assembly include over-temperature detection, open-wire detection, and failed switch detection. The GE Fanuc IC660TSD021 Terminal Assembly can withstand a maximum inrush current of 10 Amps for 10 milliseconds. Overcurrent or short circuit protection devices like fuses or breakers should be provided by the users in more demanding applications and environments. The electrical technicians that perform troubleshooting or maintenance operations involving the connection and disconnection of cables with this device should always apply the correct tightening torque and the proper tools. The IC660TSD021 terminal assembly is a GE Fanuc terminal assembly. The IC660TSD021 terminal assembly is compatible with the GE Fanuc IC660BBD021 I/O block. Technical specifications for IC660TSD021

Brand GE Fanuc

Series Genius I-O

Part Number IC660TSD021

Product Type Terminal assembly

Compatibility IC660BBD021 I/O Block

Operating Temperature 32 to 140 degrees Fahrenheit

Compatible Electronics Assembly IC660EBD021

Solid-State Sensors Supported

Relative Humidity 5 to 95%

Input Filter Time 5 to 100 milliseconds Description

The GE Fanuc IC660TSD021 terminal assembly is the terminal assembly for an I/O block from GE Fanuc which has the catalog number IC660BBD021. The I/O block is a 24/48 Volts DC rated sink I/O block with 16 circuits. The electronics assembly for the IC660BBD021 I/O block has the catalog number IC660EBD021 and it is compatible with the IC660TSD021 terminal assembly. The IC660BBD021 I/O block is designed by GE Fanuc to be used with 3-wire electromechanical and solid-state sensors. The diagnostics features on the IC660BBD021 I/O block include no-load detection, failed switch detection, electronics short-circuit protection, and overtemperature protection. The configurable features of the IC660BBD021 I/O block include the output powerup defaults, output pulse test capability, and the output hold last state or default. The recommended relative humidity range for the IC660BBD021 I/O block is from 5 to 95%. The operating temperature range for the block and its components, including the IC660TSD021 terminal assembly, is from 32 to 140 degrees Fahrenheit.

With a 24 Volts DC power supply, each input on the IC660BBD021 I/O block turns on when the input voltage is between 0 and 8 Volts DC, and with a 48 Volts DC power supply, each input turns on when the input voltage is between 0 and 16 Volts DC. With a 24 Volts DC power supply, each input on the IC660BBD021 I/O block turns off when the input voltage is between 17 and 24 Volts DC, and with 48 Volts DC power supply, each input turns off when the input voltage is between 34 and 48 Volts DC. The input filter times can be configured anywhere in the 5 to 100 milliseconds range. The maximum power which the IC660BBD021 I/O block and its components like the IC660TSD021 terminal assembly can consume is 300 milliamps. However, the typical power consumption rating is 150 milliamps. The dimensions of the IC660BBD021 I/O block are 8.8 x 3.5 x 4.4 inches.