GE Genius I-O Series Service Manual

IC660TSD020

1. Description

The GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly has been specifically designed and manufactured to be a low-cost wiring connection solution for a wide array of industrial automation devices. It has 16 independent, screw-type terminal connection points designed for the connection of wiring from external sensors, actuators, solenoid valves, relays, limit switches, level switches, and pressure switches. The GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly uses an operating voltag

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TSD020**
Product	**type Terminal assembly**
3-Wire	**Solid-State Sensors Supported**
Operating	**Temperature 0 to 60 degrees Celsius**
Combatible	**Electronics Assembly IC660EBD020 electronics assembly**
Compatible	**I/O Block IC660BBD020 I/O block**
Inrush	**Current 10 Amps**
Single-Source	**Operating Voltage 18 to 56 Volts DC Description**
The	**GE Fanuc IC660TSD020 terminal assembly is a terminal assembly for an I/O block with the catalog number IC660BBD020. The electronics assembly for the IC660BBD020 block that is compatible with the IC660TSD020 terminal assembly has the catalog number IC660EBD020. The GE Fanuc IC660BBD020 I/O block is a DC-powered 16-circuit source/sink block which is a configurable I/O block that can interface with a wide range of DC actuators and sensors. The IC660BBD020 block is a 24/48 Volts DC rated source block which can be used with 3-wire solid state sensors and electromechanical sensors. Each of the 16 circuits on the IC660BBD020 block**

3. Product Information

The GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly has been specifically designed and manufactured to be a low-cost wiring connection solution for a wide array of industrial automation devices. It has 16 independent, screw-type terminal connection points designed for the connection of wiring from external sensors, actuators, solenoid valves, relays, limit switches, level switches, and pressure switches. The GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly uses an operating voltage range between 24 and 48 Volts DC, which is drawn from the PLC backplane and which is mainly used for the outputs connected to it, and for delivering a maximum current of 2 Amps per connection point. A handheld configuration tool can be connected by using the port near the upper side of the module for configuration and programming purposes.

The GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly can be attached directly to an available slot in the Genius I/O PLC rack, or it can be mounted by using a DIN rail attached to the wall of the panel. Its compact dimensions of 64 millimeters x 124 millimeters x 102 millimeters and its low weight of 740 grams make it a very convenient choice for crowded panels. The operating temperature range of the GE Fanuc IC660TSD020 Genius I/O Block Terminal Assembly should remain between 0 and 60 degrees Celsius (32 to 140 degrees Fahrenheit) at all times because hotter or colder environments may cause a reduction in the device’s lifespan. Only authorized personnel should be allowed to perform maintenance and upgrades on this device. The IC660TSD020 terminal assembly is a GE Fanuc terminal assembly. The IC660TSD020 terminal assembly is designed for use with the IC660BBD020 block. Technical specifications for IC660TSD020

Brand GE Fanuc

Series Genius I-O

Part Number IC660TSD020

Product type Terminal assembly

3-Wire Solid-State Sensors Supported

Operating Temperature 0 to 60 degrees Celsius

Combatible Electronics Assembly IC660EBD020 electronics assembly

Compatible I/O Block IC660BBD020 I/O block

Inrush Current 10 Amps

Single-Source Operating Voltage 18 to 56 Volts DC Description

The GE Fanuc IC660TSD020 terminal assembly is a terminal assembly for an I/O block with the catalog number IC660BBD020. The electronics assembly for the IC660BBD020 block that is compatible with the IC660TSD020 terminal assembly has the catalog number IC660EBD020. The GE Fanuc IC660BBD020 I/O block is a DC-powered 16-circuit source/sink block which is a configurable I/O block that can interface with a wide range of DC actuators and sensors. The IC660BBD020 block is a 24/48 Volts DC rated source block which can be used with 3-wire solid state sensors and electromechanical sensors. Each of the 16 circuits on the IC660BBD020 block can be configured as an input, tristate input, or output. The typical power required by the IC660BBD020 I/O block is 150 milliamps. The block power current requirement can go up to 300 milliamps.

The operating voltage from a single source for the IC660TSD020 terminal assembly and the whole IC660BBD020 block it is part of ranges from 18 to 56 Volts DC. With 16 outputs operating at 2 Amps, the heat dissipation for the block is 68.8 Watts. The block has LEDs for each individual circuit which display the load side indications. The block also has LEDs which display the block's status. The IC660BBD020 block has 1.7 milliseconds of input processing time and 5.6 kiloohms of input impedance. The block supports the following input diagnostics: open wire, failed switch, and overtemperature diagnostics. The steady state output current is 2 Amps per circuit. The inrush current can go up to 10 Amps. The block output current is 15 Amps at 35 degrees Celsius. The minimum recommended load is 50 milliamps with no load enabled. The operating temperature recommended by GE Fanuc for the IC660TSD020 terminal assembly and the whole I/O block is from 0 to 60 degrees Celsius.