GE Genius I-O Series Service Manual

IC660TSA100

1. Description

The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module is a single-phase, solid-state electronic wiring module that can be employed in diverse small industrial applications that require the connection of 4 analog inputs to a GE Fanuc Series 90-70 Programmable Logic Controller (PLC). It also has 2 analog outputs for the PLC to use to emit a response signal. The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module needs to be powered directly from a single-phase 115 Volts AC rated utilit

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TSA100**
Product	**Type Terminal assembly**
Compatible	**I/O Block IC660BBA100**
Operating	**Temperature 0 to 60 degrees Celsius**
Compatible	**Electronics Assembly IC660EBA100**
Number	**of Supported Block I/O 2 outputs and 4 inputs**
Heat	**Dissipation Rating 6 Watts**
Power	**Supply Dropout Time 1 Cycle Description**
The	**GE Fanuc IC660TSA100 terminal assembly is the terminal assembly for the I/O block from GE Fanuc which has the catalog number IC660BBA100. This I/O block is a voltage and current I/O block with 2 outputs and 4 inputs. The IC660BBA100 block is a 115 Volts AC rated voltage and current analog I/O block. The electronics assembly which is compatible with the IC660BBA100 block and the IC660TSA100 terminal assembly has the catalog number IC660EBA100. The weight of the I/O block is approximately 4 pounds and the dimensions are 224.4 x 33.4 x 39.1 millimeters. LEDs are provided on the IC660BBA100 I/O block and they are the “I/O Enabled” and “Unit OK” LEDs.**

3. Product Information

The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module is a single-phase, solid-state electronic wiring module that can be employed in diverse small industrial applications that require the connection of 4 analog inputs to a GE Fanuc Series 90-70 Programmable Logic Controller (PLC). It also has 2 analog outputs for the PLC to use to emit a response signal. The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module needs to be powered directly from a single-phase 115 Volts AC rated utility line, or it can also be powered by a 24 to 48 Volts DC power supply. All of the module ports are identified on the front side of the unit, making the installation process a very intuitive operation. The users just need to select the correct combination of the inputs and outputs, plug in the cables from the field devices, and tighten the screw terminals.

The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module’s operating temperature range should remain between 0 and 60 degrees Celsius (32 and 140 degrees Fahrenheit), and if those limits are going to be exceeded regularly, a climate control system should be installed in the panel board. The installation of the unit can be done directly on the panel or a wall or by using a DIN rail. The GE Fanuc IC660TSA100 Genius I/O Terminal Assembly Module has been designed to operate directly in the field, under moderately severe industrial and environmental conditions, such as a constant vibration of 5 to 10 Hertz with 0.2 inches of displacement, but should never be exposed directly to water or high humidity. The GE Fanuc IC660TSA100 terminal assembly is the terminal assembly for an I/O block. The IC660TSA100 terminal assembly is compatible with the IC660BBA100 I/O block. Technical specifications for IC660TSA100

Brand GE Fanuc

Series Genius I-O

Part Number IC660TSA100

Product Type Terminal assembly

Compatible I/O Block IC660BBA100

Operating Temperature 0 to 60 degrees Celsius

Compatible Electronics Assembly IC660EBA100

Number of Supported Block I/O 2 outputs and 4 inputs

Heat Dissipation Rating 6 Watts

Power Supply Dropout Time 1 Cycle Description

The GE Fanuc IC660TSA100 terminal assembly is the terminal assembly for the I/O block from GE Fanuc which has the catalog number IC660BBA100. This I/O block is a voltage and current I/O block with 2 outputs and 4 inputs. The IC660BBA100 block is a 115 Volts AC rated voltage and current analog I/O block. The electronics assembly which is compatible with the IC660BBA100 block and the IC660TSA100 terminal assembly has the catalog number IC660EBA100. The weight of the I/O block is approximately 4 pounds and the dimensions are 224.4 x 33.4 x 39.1 millimeters. LEDs are provided on the IC660BBA100 I/O block and they are the “I/O Enabled” and “Unit OK” LEDs. The block to block isolation rating of the block and the IC660TSA100 terminal assembly that is part of it is 1500 Volts and the heat dissipation rating is 6 Watts.

The nominal operating voltage for the IC660BBA100 block, and by extension the IC660TSA100 terminal assembly, is 98 to 132 Volts AC. The maximum power consumption rating is 10 VA. The IC660BBA100 block can accept 47 to 63 Hertz of line frequency. The power supply dropout time for the I/O block is 1 cycle. The absolute accuracy is +/-0.2% of the full scale. The maximum accuracy is +/-0.5% of the full scale. In the presence of strong RF interference, the accuracy may be degraded to +/-0.5% of full scale reading plus 0.5% of the reading. The thermal drift at 25 degrees Celsius is 50 millivolts in the 10 Volts range, 25 millivolts on the 5 Volts range, and 100 milliamps in the 4 to 20 milliamps range. Each circuit on the IC660BBA100 can provide or accept signals in the following ranges: 0 to 5 Volts DC, 0 to 10 Volts DC, 4 to 20 milliamps or 1 to 5 Volts DC, -10 to 10 Volts DC, and -5 to 5 Volts DC.