GE Genius I-O Series Service Manual

IC660TSA020

1. Description

The GE Fanuc IC660TSA020 Analog I/O Terminal Assembly is a Genius I/O wiring termination platform that is designed and manufactured by GE Fanuc to serve as the cable connection hub for the GE analog I/O blocks in the Series 90-70 automation systems. Its small size of 8.83 inches (22.44 centimeters) x 3.5 inches (8.89 centimeters) x 3.94 inches (10 centimeters) and low weight of 4 pounds (1.8 kilograms), united with its ability to mount in several different panel locations, make it an ideal choic

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TSA020**
Product	**Type Terminal assembly**
Compatible	**Block IC660BBA020**
Operating	**Temperature 0 to 60 degrees Celsius**
Minimum	**Spacing Requirements 2 inches between blocks**
Compatible	**Electronics Assembly IC660EBA020**
Air-Cooling	**Supported**
Wire	**Gauge 12 AWG Wire Description**
The	**GE Fanuc IC660TSA020 terminal assembly is a terminal assembly for the GE Fanuc IC660BBA020 I/O block, which is a 24/48 Volts DC rated analog I/O block with 4 analog inputs and 2 outputs. The electronics assembly for this I/O block that is compatible with the IC660TSA020 terminal assembly has the catalog number IC660EBA020. The I/O block has 4 independent input circuits and 2 independent output circuits. Each circuit on this I/O block can accept or provide signals in one of the following 5 ranges: 0 to 10 Volts DC, -10 to +10 Volts DC, -5 to +5 Volts DC, 0 to 5 Volts DC, and 4 to 20 milliamps/1 to 5 Volts DC. This flexibility in circuit configuration allows the IC660TSA02**

3. Product Information

The GE Fanuc IC660TSA020 Analog I/O Terminal Assembly is a Genius I/O wiring termination platform that is designed and manufactured by GE Fanuc to serve as the cable connection hub for the GE analog I/O blocks in the Series 90-70 automation systems. Its small size of 8.83 inches (22.44 centimeters) x 3.5 inches (8.89 centimeters) x 3.94 inches (10 centimeters) and low weight of 4 pounds (1.8 kilograms), united with its ability to mount in several different panel locations, make it an ideal choice for panels with limited internal space. The GE Fanuc IC660TSA020 Analog I/O Terminal Assembly has an absolute accuracy of 0.2% maximum of full scale at 25 degrees Celsius and an input resolution of 12 bits, which offers the plant control architecture a very precise connection platform with negligible errors.

The GE Fanuc IC660TSA020 Analog I/O Terminal Assembly offers great flexibility of installation because it only needs a DIN rail inside a protected panelboard for mounting in order to start operating. It is important for the designers to guarantee the free circulation of air throughout the panel in order to keep the electronics inside the GE Fanuc IC660TSA020 Analog I/O Terminal Assembly within the recommended operating temperature range, which is between 0 and 60 degrees Celsius (32 to 140 degrees Fahrenheit). If these temperature limits are exceeded, this can cause unexpected failures that will diminish the terminal assembly's output and lifespan. Using a climate control system to keep temperature and humidity levels inside the panel in check is the best choice for extending the operating life of this terminal assembly. The GE Fanuc IC660TSA020 terminal assembly is a terminal assembly for the IC660BBA020 I/O block. The IC660BBA020 I/O block is a DC analog I/O block. Technical specifications for IC660TSA020

Brand GE Fanuc

Series Genius I-O

Part Number IC660TSA020

Product Type Terminal assembly

Compatible Block IC660BBA020

Operating Temperature 0 to 60 degrees Celsius

Minimum Spacing Requirements 2 inches between blocks

Compatible Electronics Assembly IC660EBA020

Air-Cooling Supported

Wire Gauge 12 AWG Wire Description

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The configurable features of the IC660BBA020 I/O block include independent scaling for each output and each input, the enabling and disabling of fault reports to the host, a configurable input filter time, low and high alarm limits for each inputs, input underrange and overrange detection, and output underrange and overrange detection. The IC660BBA020 I/O block should be installed inside a protective enclosure. The area where the I/O block that incorporates the IC660TSA020 terminal assembly is installed should be clean and free of airborne contaminants. The airflow around the I/O block should be enough to ensure that the ambient temperature remains within the recommended range, which is 0 to 60 degrees Celsius. The IC660BBA020 I/O block can be installed face down or face up. At least 2 inches of spacing should be provided between adjacent I/O blocks. The green ground screw on the block should be connected to a reliable ground system using 12 AWG wire.