GE Genius I-O Series Service Manual

IC660TBA106

1. Description

The IC660TBA106 Terminal Assembly is a Genius I/O box-style and screw-type terminal assembly module that has been designed by GE Fanuc. It hosts the field wiring connections between the I/O block and the field devices. Its rugged and compact design ensures its durability in industrial settings. This module is situated between the IC660BBA106 I/O Block and the IC660EBA106 Electronics Assembly in the system. The wiring requirements of the terminal assembly depend on the specifications of the compa

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBA106**
Block	**Type Six analog input circuits**
Rated	**Voltage 115 Volts AC / 125 Volts DC**
Power	**Supply Voltage 93 to 132 Volts AC / 105 to 145 Volts DC**
Maximum	**Current 250 milliamps (AC) / 140 milliamps (DC)**
Frequency/Ripple	**47 to 63 Hertz / 10% maximum ripple**
Power	**Supply Dropout Time 1 cycle (AC) / 10 milliseconds (DC)**
Heat	**Dissipation (Maximum) 12 Watts**
Block	**to Block Isolation 1500 Volts for 1 minute**
Group	**to Group Isolation 1500 Volts RMS**
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	**Genius I/O terminal assembly that is known as the IC660TBA106 terminal assembly is an assembly with 6 analog inputs. This assembly is part of a terminal block that is designed to allow and enhance communication between controllers**

3. Product Information

The IC660TBA106 Terminal Assembly is a Genius I/O box-style and screw-type terminal assembly module that has been designed by GE Fanuc. It hosts the field wiring connections between the I/O block and the field devices. Its rugged and compact design ensures its durability in industrial settings. This module is situated between the IC660BBA106 I/O Block and the IC660EBA106 Electronics Assembly in the system. The wiring requirements of the terminal assembly depend on the specifications of the compatible I/O block. The IC660TBA106 Terminal Assembly ensures expanded I/O capabilities within a field control station. Its tightening screws can be easily accessed by using a Phillips or flathead screwdriver. It is a heavy-duty industrial terminal assembly unit that has high levels of connectivity.

The IC660TBA106 Terminal Assembly has 32 screw-type terminals. It is equipped with slotted mechanical keying to make sure that it fits only with a compatible electronics assembly. Terminal 5 to 32 can be used to interface a variety of devices such as an input power supply, field devices, and a bus switching module. Terminal 5 is the ground terminal which ensures the safety of the block. Terminal 5 is connected to the block chassis. The DC power source must be connected to Terminals 6 and 7. An AC power source can be connected to the H and N terminals of the terminal assembly. The operating temperature range of the IC660TBA106 Terminal Assembly is 0 to 60 degrees Celsius. Since this module can store the configuration details, it is not required to configure the module again, even if the electronics assembly is replaced or removed. This module acts as the terminal for all the field wiring in the system. The Genius I/O terminal assembly with the catalog number IC660TBA106 is made by GE Fanuc and it includes 6 analog input circuits. The terminal operates on a voltage range of 93 to 132 Volts AC or 105 to 145 Volts DC. The unit has a maximum heat dissipation rating of 12 Watts and an isolation voltage rating of 1500 Volts. Technical specifications for IC660TBA106

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBA106

Block Type Six analog input circuits

Rated Voltage 115 Volts AC / 125 Volts DC

Power Supply Voltage 93 to 132 Volts AC / 105 to 145 Volts DC

Maximum Current 250 milliamps (AC) / 140 milliamps (DC)

Frequency/Ripple 47 to 63 Hertz / 10% maximum ripple

Power Supply Dropout Time 1 cycle (AC) / 10 milliseconds (DC)

Heat Dissipation (Maximum) 12 Watts

Block to Block Isolation 1500 Volts for 1 minute

Group to Group Isolation 1500 Volts RMS

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 Genius I/O terminal assembly that is known as the IC660TBA106 terminal assembly is an assembly with 6 analog inputs. This assembly is part of a terminal block that is designed to allow and enhance communication between controllers and various field devices. The analog signal which is sent between these components is emitted within the current range of 4 milliamps to 20 milliamps. The IC660TBA106 current-source terminal assembly is built by GE Fanuc and it has features like circuit scaling, input conversion time, adjustable input alarms, and CPU redundancy. The terminal is compatible with PLC devices from GE Series 90-70 and it supports various programming software which provides a full set of customizable options. In order to configure the terminal, the users must use a dedicated hand-held monitor.

The GE Fanuc IC660TBA106 terminal assembly has an input conversion time of 16.6 to 400 milliseconds and overrange capacity of 0 to 25 milliamps. The terminal requires a power source with voltage a range of 93 to 132 Volts AC or 105 to 145 Volts DC. The usual isolation for block to block relation is 1500 Volts and the group to group isolation is 1500 Volts RMS. The IC660TBA106 terminal assembly has a dropout time of a single cycle for the AC voltage and minimum dropout time of 10 milliseconds for the DC voltage. The rated current of the component is 250 milliamps for AC power sources and it is 140 milliamps for DC power sources. In addition to that, the terminal assembly has a rejection value of -45 decibels at a frequency of 50 to 60 Hertz and an input impedance of 100 Ohms during normal operation.