GE Genius I-O Series Service Manual

IC660TBA103

1. Description

GENIUS Terminal Assembly for (TBA Only) TBA103 for IC660BBA103 IC660T IC660TB IC660TBA The IC660TBA103 GENIUS terminal assembly for TBA 103 by GE Fanuc has a rated voltage of 115 Volts AC and 125 Volts DC. This thermocouple block component has a power supply dropout time of 1 cycle (AC) or 10 milliseconds (DC) and a heat dissipation of 9 Watts maximum. The power supply voltage ranges are 93 to 132 Volts AC and 105 to 145 Volts DC. The unit has a block to block isolation of 1500 Volts for 1 minu

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBA103**
Block	**type 6 thermocouple-compatible inputs, three isolated groups of two**
Rated	**voltage 115 Volts AC / 125 Volts DC**
Power	**supply voltage 93 to 132 Volts AC at 9 Watts / 105 to 145 Volts DC at 9 Watts**
Power	**supply dropout time 1 cycle (AC) / 10 milliseconds (DC)**
Frequency/ripple	**47 to 63 Hertz / 10% maximum ripple**
Heat	**dissipation (maximum) 9 Watts**
Block	**to block isolation 1500 Volts for 1 minute**
Group	**to group isolation 300 Volts**
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 terminal assembly with the product code IC660TBA103 is made to be part of a thermocouple block and used for the control of inputs for temperature. This block model includes 6 inputs grouped into 3 identical isolated sets. The t**

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Series Genius I-O

Part Number IC660TBA103

Block type 6 thermocouple-compatible inputs, three isolated groups of two

Rated voltage 115 Volts AC / 125 Volts DC

Power supply voltage 93 to 132 Volts AC at 9 Watts / 105 to 145 Volts DC at 9 Watts

Power supply dropout time 1 cycle (AC) / 10 milliseconds (DC)

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

Heat dissipation (maximum) 9 Watts

Block to block isolation 1500 Volts for 1 minute

Group to group isolation 300 Volts

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 terminal assembly with the product code IC660TBA103 is made to be part of a thermocouple block and used for the control of inputs for temperature. This block model includes 6 inputs grouped into 3 identical isolated sets. The terminal is equipped with LED indicators and it dissipates 9 Watts of heat maximum. The IC660TBA103 terminal assembly features 1500 Volts of block to block isolation voltage and 300 Volts of group to group isolation voltage. This component has an input update time of 2 to 3 seconds for all the channels and it includes a variety of diagnostic capabilities. The features of thermocouple block are configurable and they include the baud rate, fault reports, low alarms, high alarms, BSM controllers, and the offset value.

The IC660TBA103 terminal assembly can be configured to respond differently to different errors. The inactive channels of the terminal will not show faults if the users choose to disable the fault detection on them through the "channel active" feature. The terminal can also be adjusted to avoid fault reporting for a particular block circuit so that the fault report will not be sent to the CPU. However, the connected computer will handle the fault even if the fault detection feature is turned off. The IC660TBA103 terminal assembly has a power supply voltage range of 93 to 132 Volts AC and it also supports DC operation in the range of 105 to 145 Volts DC. The dropout time of the unit is 47 to 63 Hertz and the maximum ripple is 10%. The terminal assembly supports the measurement of the voltage at the inputs in the range of -25.0 milliVolts to +150 milliVolts.