GE Genius I-O Series Service Manual

IC660EBA021

1. Description

GENIUS Electronic Assembly for BBA021 24-48VDCRTD Block Input (EBA Only) IC660E IC660EBA The GE Fanuc IC660EBA021 Genius I/O Block Electronics Assembly is for the Genius I/O RTD (Resistive Temperature Detector) input block known as the IC66BBA021 Input Block. This I/O block has 6 analog inputs, 18 to 56 Volts DC of operating voltage, 7 Watts of power rating, and a group isolation rating of 300 Volts. Technical specifications for IC660EBA021

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660EBA021**
Description	**Genius I/O Block Electronics Assembly**
Application	**Genius I/O Block**
Operating	**Voltage 18 to 56 Volts DC**
Input	**6 Input Circuits**
Input	**Signal Format Degrees Celsius, Degrees Fahrenheit, Ohms, or Counts**
RTDs	**Nickel, Copper, or Platinum**
Input	**Resolution 0.1 Degrees Celsius**
Input	**Accuracy +/-1.0 Degree Celsius (Platinum or Nickel) and +/-10 Degrees Celsius (Copper)**
Input	**Update Time 400 to 1600 Milliseconds**
Installation	**Terminal Assembly Description**
The	**GE Fanuc IC660EBA021 Genius I/O Block Electronics Assembly is made for the GE Genius I/O RTD (Resistive Temperature Detector) input block. The IC660EBA021 Electronics Assembly can be ordered together with a terminal assembly as a complete factory-assembled module or separately as a single electronics assembly with 6 input channels. The IC660EBA021 Electronics Assembly has 6 input circuits arranged in 3 groups of 2 with up to 300 Volts of isolation between each group. Each I**

3. Product Information

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Series Genius I-O

Part Number IC660EBA021

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Application Genius I/O Block

Operating Voltage 18 to 56 Volts DC

Input 6 Input Circuits

Input Signal Format Degrees Celsius, Degrees Fahrenheit, Ohms, or Counts

RTDs Nickel, Copper, or Platinum

Input Resolution 0.1 Degrees Celsius

Input Accuracy +/-1.0 Degree Celsius (Platinum or Nickel) and +/-10 Degrees Celsius (Copper)

Input Update Time 400 to 1600 Milliseconds

Installation Terminal Assembly Description

The GE Fanuc IC660EBA021 Genius I/O Block Electronics Assembly is made for the GE Genius I/O RTD (Resistive Temperature Detector) input block. The IC660EBA021 Electronics Assembly can be ordered together with a terminal assembly as a complete factory-assembled module or separately as a single electronics assembly with 6 input channels. The IC660EBA021 Electronics Assembly has 6 input circuits arranged in 3 groups of 2 with up to 300 Volts of isolation between each group. Each IC660EBA021 Electronics Assembly input is compatible with nickel, copper, or platinum Resistive Temperature Detectors (RTDs), and the input data from each input channel is linearized for the RTD type that is selected. The IC660EBA021 Electronics Assembly is factory-calibrated and it requires no additional field calibration. It comes with built-in diagnostics and protective functions including open wire detection, under range/over-range detection, short-circuit detection, fault detection, and error detection that allow for smooth operation.

The IC660EBA021 Electronics Assembly has a block voltage range of 18.0 to 56.0 Volts DC and a maximum power rating of 7.0 Watts. Its 6 iinput channels have 0.1 degrees Celsius of resolution and an absolute accuracy values of +/-1.0 degree Celsius (platinum or nickel RTDs) and +/-10 degrees Celsius (copper RTDs). The IC660EBA021 Electronics Assembly has selectable input update and filter times (400 milliseconds, 800 milliseconds, or 1600 milliseconds), and a resistance measurement range of 0 to 5000 Ohms. The IC660EBA021 Electronics Assembly sends data to the CPU in units of tenths of degrees Celsius, degrees Fahrenheit, Ohms, or in a counts format. The IC660EBA021 Electronics Assembly can be installed on the terminal assembly base by aligning it perfectly to the base and securing it firmly with retaining screws at the top and bottom of the terminal assembly.