GE Genius I-O Series Service Manual

IC660TBA025

1. Description

The IC660TBA025 is a 24/48 voltage DC current source analog output block of the genius input/output block manufactured by GE Fanuc Automation North America, Inc. The Genius block is a modular input-output module. The IC660TBA025 is a part of the terminal assembly components of the block. The terminal assembly is the base of the genius block that hosts all the field wirings and permanent configurations.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBA025**
Description	**Analog Output block**
Circuit	**6**
Signal	**Acceptance 2-30 mA**
Voltage	**115 Volts AC, 24/48/125 Volts DC**
Frequency	**50/60 Hertz**
Temperature	**0-60 degrees Celsius**
Heat	**Dissipation 12 watts**
Isolation	**1500 Volts**
Ripple	**Frequency 47-63 Hertz Description**
The	**IC660TBA025 output block is a GE Fanuc current source output block. It uses analog output and it is equipped with 6 output circuits. Each of the individual circuits can accept signals between 4 and 20 milliamps. The 5th and 6th outputs in the circuit can be also used for voltage-related applications. The operation voltage range of the output block is 115 Volts AC and 24, 48, or 125 Volts DC. This Genius I/O block offers unmatched performance for industrial automation. It operates with a frequency of 50 to 60 Hertz. The IC660TBA025 output block provides an output accuracy of 0.15% when operated at 25 degrees Celsius. The output resolution of the output block is 6 microamps. With**

3. Product Information

The IC660TBA025 is a 24/48 voltage DC current source analog output block of the genius input/output block manufactured by GE Fanuc Automation North America, Inc. The Genius block is a modular input-output module. The IC660TBA025 is a part of the terminal assembly components of the block. The terminal assembly is the base of the genius block that hosts all the field wirings and permanent configurations.

The IC660TBA025 can be connected through its 6 outlets to devices that accept an input between 4 and 20 milliamperes. This output block powers all circuits with no segregation between a 4 or 20 milliampere outputs. The devices give outputs at 25C that is accurate to up to 0.15 percent at a resolution of 6 microamperes.

The user can configure several features of the IC660TBA025. If the block is introduced to a redundant bus system, it operates in a Bus Switching Mode. The user can program the IC660TBA025 to offer a default mode and to offer output feedback checking. Furthermore, configurations can be made to overstep CPU redundancy and to scale circuits to engineering units.

The IC660TBA025 functions to perform checks on any output feedback that dips below 1.5 milliamperes as well as output that is under or over the range, these genius blocks that are compatible with the PCIM and QBIM modules of the Genius Bus Controllers. The power supply characteristics of the IC660TBA025 are between 18 and 56 volts of direct current. It has an upper limit on the current of 250 milli amperes. The GE Fanuc IC660TBA025 output block is a current-source analog output block. It can accept 4 to 20 milliamps rated signals.

Technical specifications for IC660TBA025

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBA025

Description Analog Output block

Circuit 6

Signal Acceptance 2-30 mA

Voltage 115 Volts AC, 24/48/125 Volts DC

Frequency 50/60 Hertz

Temperature 0-60 degrees Celsius

Heat Dissipation 12 watts

Isolation 1500 Volts

Ripple Frequency 47-63 Hertz Description

The IC660TBA025 output block is a GE Fanuc current source output block. It uses analog output and it is equipped with 6 output circuits. Each of the individual circuits can accept signals between 4 and 20 milliamps. The 5th and 6th outputs in the circuit can be also used for voltage-related applications. The operation voltage range of the output block is 115 Volts AC and 24, 48, or 125 Volts DC. This Genius I/O block offers unmatched performance for industrial automation. It operates with a frequency of 50 to 60 Hertz. The IC660TBA025 output block provides an output accuracy of 0.15% when operated at 25 degrees Celsius. The output resolution of the output block is 6 microamps. With its open architecture, the block houses the monitoring port that can be used to connect with handheld monitors.

Along with this port, IC660TBA025 output block has Serial Port 1, Serial Port 2, the Shield In Port, the Shield Out Port, and connections for GND, H, NC, and BSM devices. There are also LED indicators present in the block that are the "Unit OK" and "I/O Enabled" LEDs. The IC660TBA025 output block can also be connected to the RJ 45 port of a personal computer running the Windows operating system. The analog block has a heat dissipation rating of 12 Watts and the isolation between individual outputs is 1500 Volts. The frequency of the ripple ranges between 47 and 63 Hertz. The IC660TBA025 output block has a powerful diagnostics system that can easily detect feedback errors, underrange errors, and overrange errors during the operation and installation of the block. The environment where the block is installed should have a temperature range between 0 and 60 degrees Celsius for optimal operation.