GE Genius I-O Series Service Manual

IC660BBD023

1. Description

The IC660BBD023 is a 24 VDC Source I/O, 16 Circuit, 2/3 Wire Sensor Compatible Block of GE Fanuc series 90-30 PLCs. It is one of the discrete and analog blocks in this series. Its interface is electromechanical and has two or three wire solid state sensors. The block has 16 discrete circuits that can work as inputs, tristate inputs, or outputs. This block receives current from field output devices. The power source needed is 24/48 VDC. The IC660BBD023 has 16 circuits and many features. These inc

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660BBD023**
Description	**Sink I/O block**
Voltage	**24 Volts DC**
Circuits	**16**
Load	**current rating 2 Amperes**
Selectable	**Input filter time 10-100 ms**
Heat	**Dissipation 68.8 Watts with 2 Amperes**
Steady	**state output current 2 Amperes**
Output	**OFF leakage current 1.9 milliAmperes**
Temperature	**0-60 degrees Celsius Description**
The	**IC660BBD023 I/O block is a 24 Volts DC rated I/O block by GE Fanuc. It meets the Ul standard and it complies with different industrial standards. It is 2-wire and 3-wire sensor compatible and is part of the GE Genius I-O PLC system. It is equipped with 16 individual circuits that can work as inputs, outputs, or tri-state inputs. The load current rating of the I/O block is 2 Amps. This intelligent I/O device is used for interfacing with a wide variety of input and output devices. It is also compatible with DC sensors and actuator devices. This Genius I/O device has open architecture and it should be protected against water splashes,**

3. Product Information

The IC660BBD023 is a 24 VDC Source I/O, 16 Circuit, 2/3 Wire Sensor Compatible Block of GE Fanuc series 90-30 PLCs. It is one of the discrete and analog blocks in this series. Its interface is electromechanical and has two or three wire solid state sensors. The block has 16 discrete circuits that can work as inputs, tristate inputs, or outputs. This block receives current from field output devices. The power source needed is 24/48 VDC. The IC660BBD023 has 16 circuits and many features. These include output pulse test, configurable input filter time, output power up defaults, and output hold last state or default. It also has diagnostics for installation and run-time errors.

Dimensions for IC660BBD023 are 22.4c.m. x 9.05cm x 11.23c.m. The block weighs 1.8kg. Its operating temperatures are from 0 to 60 degrees Celsius. A handheld monitor and CPU rev 110 or later is required for proper configurations. This block is compatible with all types of handheld monitors. The IC660BBD023 can replace all its previous versions when a compatible electronics assembly is. When installing, a protective case should be used in conjunction with an appropriate environment, meaning no airborne contaminants and adequate cooling and air flow. A reliable grounding system is also required. The desired cables when wiring the terminals are #12 or two #14 wires. The IC660BBD023 I/O block is a sink I/O block by GE Fanuc. It runs with 24 Volts DC voltage. Technical specifications for IC660BBD023

Brand GE Fanuc

Series Genius I-O

Part Number IC660BBD023

Description Sink I/O block

Voltage 24 Volts DC

Circuits 16

Load current rating 2 Amperes

Selectable Input filter time 10-100 ms

Heat Dissipation 68.8 Watts with 2 Amperes

Steady state output current 2 Amperes

Output OFF leakage current 1.9 milliAmperes

Temperature 0-60 degrees Celsius Description

The IC660BBD023 I/O block is a 24 Volts DC rated I/O block by GE Fanuc. It meets the Ul standard and it complies with different industrial standards. It is 2-wire and 3-wire sensor compatible and is part of the GE Genius I-O PLC system. It is equipped with 16 individual circuits that can work as inputs, outputs, or tri-state inputs. The load current rating of the I/O block is 2 Amps. This intelligent I/O device is used for interfacing with a wide variety of input and output devices. It is also compatible with DC sensors and actuator devices. This Genius I/O device has open architecture and it should be protected against water splashes, dust, and airborne contaminants. It can be used in indoor locations only. The front side of the block has LED indicators to monitor the status of the unit and the I/O.

For internal communication, the IC660BBD023 I/O block has 2 serial ports known as Serial Port 1 and Serial Port 2. It is also equipped with a Shield In port and a Shield Out port. The I/O block can be configured or monitored by using a programmable controller connected to the monitor port. The IC660BBD023 I/O block provides short circuit protection, overtemperature protection, failed switch detection, overload detection, and open wire detection. The block offers selectable input filter times ranging between 10 milliseconds and 100 milliseconds. During normal operation, the IC660BBD023 I/O block dissipates 68.8 Watts of heat when using 16 outputs at 2 Amps. The output current in steady-state is 2 Amps per circuit and the output off-state leakage current is 1.9 milliAmps. The operating environment's temperature should be set between 0 and 60 degrees Celsius.