GE Genius I-O Series Service Manual

IC660TBD120

1. Description

The IC660TBD120 Terminal Assembly is designed for use with the IC660BBD120 High-Speed Counter Block by GE Fanuc. It is also compatible with the IC660EBD120 Electronics Assembly, it has the screw clamp-type terminals, and it weighs 2 pounds. It is equipped with mechanical and electronic keys that need to be matched with the right type of electronics assembly. The diagnostic facilities of the counter module can detect wiring errors between the terminal assembly and the block. Its compact design me

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius I-O**
Part	**Number IC660TBD120**
Block	**Type High-speed counter**
Operating	**Voltage 93 to 132 Volts AC / 10 to 30 Volts DC**
Frequency/Ripple	**47 to 63 Hertz / 10% maximum**
Required	**AC Power 60 milli Amps typical / 250 milli Amps maximum**
Required	**DC Power 200 milli Amps typical / 300 milli Amps maximum at 12 Volts**
Power	**Supply Dropout Time (DC) 10 milliseconds at 12 Volts / 75 milliseconds at 24 Volts**
Power	**Supply Dropout Time (AC) 1 cycle**
Dimensions	**(HxWxD) 224 x 90 x 112 millimeters (8.8 x 3.5 x 4.4 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	**IC660TBD120 terminal assembly is part of the Genius I/O series and it is designed by GE Fanuc. The terminal assembly has an operating voltage range of 93 to 132 Volts AC and a frequency range of 47 to 63 Hertz. In addition to that, the ripple of the terminal is 1**

3. Product Information

The IC660TBD120 Terminal Assembly is designed for use with the IC660BBD120 High-Speed Counter Block by GE Fanuc. It is also compatible with the IC660EBD120 Electronics Assembly, it has the screw clamp-type terminals, and it weighs 2 pounds. It is equipped with mechanical and electronic keys that need to be matched with the right type of electronics assembly. The diagnostic facilities of the counter module can detect wiring errors between the terminal assembly and the block. Its compact design means that it has reduced overall dimensions for easy installation. The IC660TBD120 Terminal Assembly can perform safe and efficient connections. It reduces the need for a custom panel and ducting and it saves installation and wiring costs.

The IC660TBD120 Terminal Assembly has an operating temperature range of 0 to 60 degrees Celsius. It comes with 32 screw-type terminals. The field wiring of the I/O block is done through the terminal assembly. It is designed so that the electronics assembly can be removed without changing the field wiring. It has screw-type terminals which accept wires with gauges of AWG #22 through AWG #12. Do not over-torque the terminal screws. The storage temperature range of the IC660BBD120 Terminal Assembly is from -40 to 100 degrees Celsius. It accepts stranded and solid wires. Prefabricated cables are also suitable for simplifying the wiring between I/O blocks. When terminating a bus at the terminal assembly, appropriate terminal resistors with impedance ratings of 75, 100, 120, or 150 Ohms must be placed across the Serial 1 and Serial 2 terminals. This terminal assembly fully meets a variety of complex wiring and installation needs. The IC660TBD120 terminal assembly is a Genius terminal assembly produced by GE Fanuc. This industrial terminal block component has an operating voltage range of 93 to 132 Volts AC and 10 to 30 Volts DC. Technical specifications for IC660TBD120

Brand GE Fanuc

Series Genius I-O

Part Number IC660TBD120

Block Type High-speed counter

Operating Voltage 93 to 132 Volts AC / 10 to 30 Volts DC

Frequency/Ripple 47 to 63 Hertz / 10% maximum

Required AC Power 60 milli Amps typical / 250 milli Amps maximum

Required DC Power 200 milli Amps typical / 300 milli Amps maximum at 12 Volts

Power Supply Dropout Time (DC) 10 milliseconds at 12 Volts / 75 milliseconds at 24 Volts

Power Supply Dropout Time (AC) 1 cycle

Dimensions (HxWxD) 224 x 90 x 112 millimeters (8.8 x 3.5 x 4.4 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 IC660TBD120 terminal assembly is part of the Genius I/O series and it is designed by GE Fanuc. The terminal assembly has an operating voltage range of 93 to 132 Volts AC and a frequency range of 47 to 63 Hertz. In addition to that, the ripple of the terminal is 10% maximum and it can also be connected to DC power sources with operating ranges of 10 to 30 Volts. The AC operation requirement includes 60 milliamps of typical current and 250 milliamps of maximum current. In addition to that, the DC power source needs a current range of 200 to 300 milliamps. The IC660TBD120 terminal assembly features the high-speed counter block type and it has a dropout time of 1 cycle for AC operation and a dropout time of 10 milliseconds at 12 Volts or 75 milliseconds at 24 Volts for DC operation.

The IC660TBD120 terminal assembly is used for applications such as material handling, process control, motion control, turbine flowmeter, and velocity measurement applications. The featured counter block is completely configurable and it is compatible with a variety of PLC components. The IC660TBD120 terminal assembly has a count rate that includes 200 kilohertz when a high-frequency filer is selected and 40 Hertz when a low-frequency filter is used. The terminal assembly has an output voltage drop of 2 Volts at a standard inrush and 0.25 Volts at a current rating of 0.5 Amps. The terminal has a maximum inrush current of 3 Amps per output and maximum circuit overcurrent threshold of 4 Amps. The maximum block steady state output current is 2 Amps.