GE Series 90-70 Series Service Manual

IC697BEM731

1. Description

The IC697BEM731 is GE-Series 90-70 Bus Controller Module. This module is mainly used to interface with other modules and performs I/O scanning and data transfer to the CPU, initiate communication with the CPU, alarm reporting and link other devices such as the PCIM. This module has One (1) channel for communication with remote modules, One (1) Hand-Held Monitor port and

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Genius Bus I/O**
Part	**Number IC697BEM731**
Operating	**Voltage 5.0 Volt DC**
Backplane	**Current 1.3 Amps**
Product	**Type Bus controller module**
Built-in	**ports One (1) Bus Controller channel; One (1) Hand-Held Terminal port**
Data	**Rates 153.5Kbaud standard /extended, 76.8Kbaud, or 38.4Kbaud**
Bus	**Cable Belden 9182 type cable**
Cable	**Distance 2000 - 7500 ft depending on the configured data rate**
Bus	**Termination 75, 150 Ohm resistor at both ends of electrical bus cable**
Maximum	**Number of Devices 30 devices / channel**
Module	**Width Single Slot**
Description	**Genius I/O Bus Controller**
Application	**IC66 PLC System**
Location	**IC66 PLC Rack**
Connectors	**3PL and 1PL Ports**
LED	**Indicators 3 LED Indicators**
Average	**Weight 2.0 Pounds**
The	**IC697BEM731 is a Genius Bus Controller Module that is part of the GE Fanuc Series 90-70 family of Programmable Logic Controller (PLC). This module is primarily used to interface up to Thirty (30) devices and transfers data by passing a token among all the configured devices**

3. Product Information

The IC697BEM731 is GE-Series 90-70 Bus Controller Module. This module is mainly used to interface with other modules and performs I/O scanning and data transfer to the CPU, initiate communication with the CPU, alarm reporting and link other devices such as the PCIM. This module has One (1) channel for communication with remote modules, One (1) Hand-Held Monitor port and

Technical specifications for IC697BEM731

Brand GE Fanuc

Series Genius Bus I/O

Part Number IC697BEM731

Operating Voltage 5.0 Volt DC

Backplane Current 1.3 Amps

Product Type Bus controller module

Built-in ports One (1) Bus Controller channel; One (1) Hand-Held Terminal port

Data Rates 153.5Kbaud standard /extended, 76.8Kbaud, or 38.4Kbaud

Bus Cable Belden 9182 type cable

Cable Distance 2000 - 7500 ft depending on the configured data rate

Bus Termination 75, 150 Ohm resistor at both ends of electrical bus cable

Maximum Number of Devices 30 devices / channel

Module Width Single Slot

Description Genius I/O Bus Controller

Application IC66 PLC System

Location IC66 PLC Rack

Connectors 3PL and 1PL Ports

LED Indicators 3 LED Indicators

Average Weight 2.0 Pounds

The IC697BEM731 is a Genius Bus Controller Module that is part of the GE Fanuc Series 90-70 family of Programmable Logic Controller (PLC). This module is primarily used to interface up to Thirty (30) devices and transfers data by passing a token among all the configured devices on the same bus.

The IC697BEM731 has One (1) channel for interfacing with devices residing on the same bus, One (1) Hand-Held Monitor (HHM) port for downloading of configuration to the module using MS DOS or Windows programming software configurator function. Upon delivery of the IC697BEM731, it is provided with no defined bus address. The configuration software sets a default address of 153.6 Kbaud standard and bus address of 31. This default address may be revised by downloading a valid configuration to the CPU. The maximum allowable distance of the communication bus is 2000 ft when configured for 153.6 Kbaud (standard); 3500 ft when configured for 153.6 KBaud (extended); 4500 ft when configured for 76.8 KBaud, 7500 ft when configured for 38.4 KBaud. It is necessary that all devices residing on the same bus or network are configured with the same baud rate otherwise, communication cannot be established or unstable communication may be experienced.

Physical communication cable used for establishing the network is Belden 9182 type cable with GE catalog number of IC660BLC001, 15-inch, qty. 3 and IC660BLC003 with 36-inch, qty. 1. Bus Terminator plugs must be installed at both ends of the bus with catalog number of IC660BLM506 150 ohm, qty. 4 and IC660BLM508, 75 ohm, qty. 4 resistors.

The IC697BEM731 Bus controller supports the transmission of global data between CPUs via a Windows-based software configuration, and it can be augmented with the IC697 PLC alarm system for reporting time-stamped faults on the processor’s data table. There is a hand-held monitor port on the rear-end of this bus controller module for connecting to hand-held monitor devices, and a connector for establishing IC66 Bus connections. The IC697BEM731 Bus controller is configured with Windows-based or MS-DOS configurator functions. By default, the Windows-based configurator function sets the baud rate to 153.5 Kilo-Bauds and the serial Bus address to 31. Other baud rates and serial bus addresses can be assigned by using the configurator function. The IC697BEM731 Bus controller performs self-diagnostics upon installation, and it has LED light indicators that show operation and communication status updates.