# GE Series 90-70 Series Service Manual

IC697BEM713

## 1. Description

The IC697BEM713 is a Series 90-70 Bus Expansion module that is from Emerson Automation, formerly by GE Fanuc. This module is specifically a Bus Transmitter Module, featuring high performance parallel programmer interface, used for maximizing I/O module capacity of the host CPU. It has One (1) parallel port that is used for programming and One (1) expansion port output for daisy-chaining

## 2. Specifications

| Specification | Value |
|---|---|
| Brand | **GE Fanuc** |
| Series | **Series 90-70** |
| Manufacturer | **Emerson Automation** |
| Part | **Number IC697BEM713** |
| Series | **Series 90-70** |
| Product | **type Bus transmitter module** |
| Part | **Number IC697BEM713** |
| Slot | **required 1** |
| Product | **Description Bus Transmitter module** |
| Voltage | **input 5 Volts DC** |
| Compatibility | **IC697 PLC** |
| Current | **draw 1.4 Amps** |
| Module | **location any slot except Slot 1** |
| Status | **LEDs OK, PGMR, Last Rack** |
| Time | **to store 16 Kbyte program** |
| Programmer | **interface 1** |
| Voltage | **input 5 Volts DC** |
| Expansion | **interface 1** |
| Current | **input 1.4 Amps** |
| Electrical | **Isolation Non-isolated differential communication** |
| Effective | **Data Rate 500 Kbytes/sec** |
| Interfaces | **One (1) Parallel port; One (1) Expansion port** |
| The | **Series 90-70 module with catalog number IC697BEM713 is a Bus Transmitter module. This module is used to the local bus where the Centra Processing Unit (CPU) is installed, allowing additional I/O and option modules to be installed to the system. This bus transmitter module is capable of handling up to Seven (7) Bus receiver Modules with catalog n** |

## 3. Product Information

The IC697BEM713 is a Series 90-70 Bus Expansion module that is from Emerson Automation, formerly by GE Fanuc. This module is specifically a Bus Transmitter Module, featuring high performance parallel programmer interface, used for maximizing I/O module capacity of the host CPU. It has One (1) parallel port that is used for programming and One (1) expansion port output for daisy-chaining

Technical specifications for IC697BEM713

Brand GE Fanuc

Series Series 90-70

Manufacturer Emerson Automation

Part Number IC697BEM713

Series Series 90-70

Product type Bus transmitter module

Part Number IC697BEM713

Slot required 1

Product Description Bus Transmitter module

Voltage input 5 Volts DC

Compatibility IC697 PLC

Current draw 1.4 Amps

Module location any slot except Slot 1

Status LEDs OK, PGMR, Last Rack

Time to store 16 Kbyte program

Programmer interface 1

Voltage input 5 Volts DC

Expansion interface 1

Current input 1.4 Amps

Electrical Isolation Non-isolated differential communication

Effective Data Rate 500 Kbytes/sec

Interfaces One (1) Parallel port; One (1) Expansion port

The Series 90-70 module with catalog number IC697BEM713 is a Bus Transmitter module. This module is used to the local bus where the Centra Processing Unit (CPU) is installed, allowing additional I/O and option modules to be installed to the system. This bus transmitter module is capable of handling up to Seven (7) Bus receiver Modules with catalog number IC697BEM711. When implementing Local Bus expansion, the maximum distance from the IC697BEM713 Bus Transmitter Module (BEM) to the last IC697BEM711 Bus Receiver Module (BRM) must not exceed 50 ft. Additionally, the last BRM must be installed with a terminating resistor with catalog number IC697ACC702, to close the daisy-chain network. This terminating resistor is attached to the Expansion Port Out of the last BRM. The IC697BEM713 comes with One (1) Parallel Port used for programming and configuration functions and One (1) Expansion port that connects to the 1st BRM of the network. The appropriate programming software to configure settings and download configuration to the IC697BEM713 are the MS-DOS or Windows programming software configuration function. The IC697BEM713 occupies a single slot of the chassis, specifically, installed to the to any slot except slot 1 which is reserved for the Series 90-30 CPU. This module has a current draw of 1.4 A, effective data rate of 500 Kbytes / sec and duration to store 16Kbyte program is 20-30 Seconds. This module is designed in compatibility with ME standard C.1. Compatible expansion cables for use with this transmitter module are IC600WD005A (5 ft. (1.5m) cable; IC600WD010A (10 ft. (3m) cable; IC600WD025A (25 ft. (7.5m) cable and IC600WD050A (50 ft. (15m) cable.

The GE Fanuc IC697BEM713 module is a bus transmitter module from Series 90-70. It permits expansions from the main rack when additional modules are required in the system. The IC697BEM713 module allows for expansion to an additional seven IC697 PLC racks. The IC697BEM713 module also provides a parallel interface which can be used by a programming device. The IC697BEM713 module occupies one slot in the rack. There are 2 connectors on the IC697BEM713 module: the connector on the top is provided for interfacing with a programming device and the connector on the bottom allows for daisy-chain configuration to expansion racks through bus receiver modules. The IC697BEM713 modules requires 5 Volts DC voltage from the system backplane and it draws 1.4 Amps of current. The specifications for the programmer interface include a data rate of 500 kilobytes per second and a maximum supported cable length of 50 feet. The specifications for the expansion interface also include a 500 kilobytes-per-second data rate and a maximum cable length of 50 feet. The IC697BEM713 module can be installed in any slot in the main rack except in slot 1 which is reserved for the CPU. The rack power should be turned off prior to module installation and it can be turned on after the module is installed in the rack. Three green LEDs are provided on the module for displaying status information. The topmost LED turns on when the CPU software completes the power-up configuration of the IC697BEM713 module and has polled all expansion racks in the system. The bottom LED displays the status of the expansion bus. The middle LED is on or blinking when the PLC and the programmer are communicating.