GE Series 90-70 Series Service Manual

IC697CPU789

1. Description

The IC697CPU789 module is a CPU module with Triple Modular Redundancy (TMR) support. The IC697CPU789 module supports RAM that is expandable to 512 KB.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-70**
Part	**Number IC697CPU789**
Product	**type CPU module**
Compatibility	**GE Fanuc 90-70 PLCs**
Triple	**Modular Redundancy Yes**
Maximum	**RAM 512 kilobytes**
Current	**draw 1.6 Amps**
Voltage	**input 5 Volts DC**
Serial	**port 1**
Clock	**speed 16 megahertz**
The	**GE Fanuc IC697CPU789 module is a 32-bit expandable Central Processing Unit (CPU) for the IC66 TMR (Triple Modular Redundancy) systems. The single-slot IC697CPU789 module supports 512 KB of battery-backed expansion memory in the same slot. Out of the 512 KB of memory, a maximum of 200 KB is available for the user's application programs and data. The IC697CPU789 module supports up to 12,000 discrete inputs/outputs in any mix in the simplex mode, 2048 voted discrete inputs, and 2048 voted discrete outputs. The module further supports 8000 analog inputs in the simplex mode, 8000 analog outputs in the simplex mode, and 1024 voted analog inputs. The IC697CPU789 module has the 80386DX processor with 16 megahertz of clocked speed. The**

3. Product Information

The IC697CPU789 module is a CPU module with Triple Modular Redundancy (TMR) support. The IC697CPU789 module supports RAM that is expandable to 512 KB.

Technical specifications for IC697CPU789

Brand GE Fanuc

Series Series 90-70

Part Number IC697CPU789

Product type CPU module

Compatibility GE Fanuc 90-70 PLCs

Triple Modular Redundancy Yes

Maximum RAM 512 kilobytes

Current draw 1.6 Amps

Voltage input 5 Volts DC

Serial port 1

Clock speed 16 megahertz

The GE Fanuc IC697CPU789 module is a 32-bit expandable Central Processing Unit (CPU) for the IC66 TMR (Triple Modular Redundancy) systems. The single-slot IC697CPU789 module supports 512 KB of battery-backed expansion memory in the same slot. Out of the 512 KB of memory, a maximum of 200 KB is available for the user's application programs and data. The IC697CPU789 module supports up to 12,000 discrete inputs/outputs in any mix in the simplex mode, 2048 voted discrete inputs, and 2048 voted discrete outputs. The module further supports 8000 analog inputs in the simplex mode, 8000 analog outputs in the simplex mode, and 1024 voted analog inputs. The IC697CPU789 module has the 80386DX processor with 16 megahertz of clocked speed. The IC697CPU789 module communicates with other PLC modules through the VME-compatible rack backplane.

The IC697CPU789 module supports various options modules, including an alphanumeric display coprocessor, a bus controller for the IC660/IC661 I/O, an I/O link interface, and IC697 series discrete and analog I/O modules. The OEM and system integrator are responsible for the proper installation and operation of this product. The PLC and module installation must comply with guidelines contained in the hardware installation manual. After the IC697CPU789 module is installed and the system power is turned on, the module should power up and the top LED should start blinking. After the completion of the diagnostics, the top LED is steady and both the second and third LEDs stay off. Now the CPU can be programmed. After programming, the toggle switch on the CPU can be moved to the desired position. The serial port supports both RS-422 and RS-485 serial communication protocols. The power required by the module is 1.6 Amps of current from the 5 Volts DC PLC bus.