GE Series 90-30 Series Service Manual

IC693CPU350

1. Description

The GE Fanuc IC693CPU350 is a Series 90-30 Processor module. This module is a CPU 363 module with single slot width, processor speed of 25 MHz with typical scan rate of 0.22 ms per 1K of logic for Boolean contacts. It has an embedded user memory of 32KB. This controller utilizes the embedded RS485 communication port installed in the power supply.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Part	**Number IC693CPU350**
Operating	**temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)**
Serial	**port RS-485 (via power supply**
CPU	**type Single slot CPU module**
User	**Memory 32K Bytes**
Processor	**type 80386EX**
Power	**requirements 670 milliamps from +5 VDC supply**
Typical	**Scan Rate 0.22 milliseconds per 1K of logic (boolean contacts)**
Type	**of Memory Storage RAM and Flash**
Number	**of Ethernet ports N/A**
Storage	**temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)**
Product	**type CPU module**
Compatibility	**GE Fanuc 90-30 PLCs**
Clock	**speed 25 Megahertz**
Current	**input 670 milliamps**
Voltage	**input 5 Volts DC**
Timers	**/ counters > 2000**
Product	**Lifecycle Status* Discontinued/Obsolete**
The	**IC693CPU350 is a GE Fanuc series 90-30 controller. This controller is part of the modular control system, featuring a single slot wide module and with capability to control up to up to Eight (8) baseplate, including the local baseplate where the CPU is installed.**

3. Product Information

The GE Fanuc IC693CPU350 is a Series 90-30 Processor module. This module is a CPU 363 module with single slot width, processor speed of 25 MHz with typical scan rate of 0.22 ms per 1K of logic for Boolean contacts. It has an embedded user memory of 32KB. This controller utilizes the embedded RS485 communication port installed in the power supply.

Technical specifications for IC693CPU350

Brand GE Fanuc

Series Series 90-30

Part Number IC693CPU350

Operating temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)

Serial port RS-485 (via power supply

CPU type Single slot CPU module

User Memory 32K Bytes

Processor type 80386EX

Power requirements 670 milliamps from +5 VDC supply

Typical Scan Rate 0.22 milliseconds per 1K of logic (boolean contacts)

Type of Memory Storage RAM and Flash

Number of Ethernet ports N/A

Storage temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)

Product type CPU module

Compatibility GE Fanuc 90-30 PLCs

Clock speed 25 Megahertz

Current input 670 milliamps

Voltage input 5 Volts DC

Timers / counters > 2000

Product Lifecycle Status* Discontinued/Obsolete

The IC693CPU350 is a GE Fanuc series 90-30 controller. This controller is part of the modular control system, featuring a single slot wide module and with capability to control up to up to Eight (8) baseplate, including the local baseplate where the CPU is installed.

The IC693CPU350 is designed with a non-configurable user memory of 32K Bytes. Up to 2048 Discrete Input, 2048 Discrete Output, 2048 Analog input Words and 512 Analog output words. This I/O count density qualifies this controller to be installed in medium to large applications.

The IC693CPU350 does not have a communication port. This controller utilizes the communication port installed in the power supply which his a RS485 communication interface, allowing connection to programming workstation, Hand-Held Programmer (HHP) and devices that are capable of exchanging data over RS485 communication standard. This port supports SNP/SNP-X slave protocols.

The IC693CPU350 is configured using a variety of options. It may be configured using the LogicMaster90, Control, VersaPro and CIMPLICITY Machine Edition Logic Developer application software applications. Additionally, legacy Hand-Held Programmers (HHP) may be used to write programs to this controller.

The IC693CPU350 has an internal processor which is the 80386EX with typical scan rate of 0.22 milliseconds per 1K of logic for boolean contacts and processing speed of 25 MHz. This controller supports Override capability, interrupts via periodic subroutine feature, PCM / CCM compatibility and Floating point math. Optional communication protocols with the installation of add-on communication modules supported by the IC693CPU350 are Ethernet, FIP, Profibus, GBC, GCM, GCM+ option modules.

The IC693CPU350 CPU is a single-slot CPU module. There are 8 baseplates per system including, the CPU baseplate and 7 expansion or remote baseplates. The IC693CPU350 CPU requires 670 milliamps of current and 5 Volts DC voltage input. The typical scan rate for the CPU module is 0.22 milliseconds per 1 KB of logic. The maximum user program memory is 32 KB. The discrete input points have capacities of 2048 words and the discrete output points also have capacities of 2048 words. The discrete global memory is 1280 bits. The register memory is 9999 words. The analog inputs and analog outputs are rated at 2048 words and 512 words, respectively. The system registers are 28 words. The IC693CPU350 CPU supports more than 2000 timers and counters. Shift registers are also supported on the CPU module. There is one integrated serial port on the IC693CPU350 CPU which supports the SNP/SNPX slave protocols. The serial port requires a PCM module for RTU master support and a CMM module for SNP/SNP-X master, RTU slave protocol, or CCM support. Both flash and RAM memory are available in the IC693CPU350 CPU. The IC693CPU350 CPU also supports floating point math operations. The working temperature range for the IC693CPU350 CPU is 0 to 60 degrees Celsius.