GE Series 90-30 Series Service Manual

IC693CPU374

1. Description

The GE Fanuc IC693CPU374 is a Series 90-30 Processor module. This module is a CPU 374 module with single slot width, processor speed of 133 MHz with typical scan rate of 0.15 ms per 1K of logic for Boolean contacts. It has an embedded user memory of 240KB with Two (2) Ethernet communication ports.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Part	**Number IC693CPU374**
Number	**of I/O points 2048**
Processor	**speed 133 Megahertz**
Register	**memory 240 kilobytes**
Power	**requirements 7.4 Watts at 5 Volts DC**
Floating	**point math Yes**
Processor	**model Embedded 586**
Serial	**port RS-485 (via power supply**
Number	**of Ethernet ports 2**
Operating	**temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)**
Storage	**temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)**
CPU	**type Single slot CPU module with embedded Ethernet Interface**
Typical	**Scan Rate 0.15 milliseconds per 1K of logic (boolean contacts)**
Type	**of Memory Storage RAM and Flash**
Processor	**type AMD SC520**
The	**IC693CPU374 is a GE Fanuc Programmable Logic Controller (PLC) module from the 90-30 series. This module is a processor module that is used to host the user program, execute the logic and managed data exchanges to and from the processor via the embedded communication ports.**

3. Product Information

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Technical specifications for IC693CPU374

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CPU type Single slot CPU module with embedded Ethernet Interface

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Type of Memory Storage RAM and Flash

Processor type AMD SC520

The IC693CPU374 is a GE Fanuc Programmable Logic Controller (PLC) module from the 90-30 series. This module is a processor module that is used to host the user program, execute the logic and managed data exchanges to and from the processor via the embedded communication ports.

The IC693CPU374 may also be referred to as a controller. This controller has built-in microprocessor with embedded 586 processor with processing speed of 133 MHz. It has a typical scan rate of 0.15 miliseconds per 1K Boolean contact logic. This controller module has a single slot width that is installed to the 90-30 PLC rack.

The IC693CPU374 has a user memory of 240KB. It has Two (2) Ethernet communication ports that supports transmission speed of 10/100 Mbps with auto-sensing capability. These ports enable the controller to be connected to an Ethernet network for communication with programming workstations such as desktop or laptop computers, communication with Human Machine Interface (HMI) and Supervisory Control and Data Acquisition (SCADA) systems as well as other processors for messaging functions. This controller may also be communicated through the RS485 communication interfaces that can be found on the power supply whether standard or high-capacity power supply.

This controller accepts user program that is developed using a variety of programming software applications such as VersaPro 2.03 or later, CIMPLICITY Machine Edition Logic Developer 2.60 or later and Control software version 2.50 or later. When performing online edit to a controller with existing user program, utilize the same software with equal or higher version.

The IC693CPU374 CPU features a processor speed of 133 Megahertz and a total user memory of 240 KB. The program memory can be configured according to the application requirements and it includes a register memory that is configurable within a range of 128 to 32,640 words, and a configurable memory for analog inputs and analog outputs. The memory for system registers supports up to 28 words and the users can set up around 2000 timers and counters. The IC693CPU374 CPU features the 80386EX processor of the AMD SC520 type and it has 2 built-in Ethernet ports that allow 10/100 base-T/TX communication. The featured Ethernet ports are connected through RJ-45 connectors. The unit also supports an RS-485 port on the power supply and it allows for communication through the SNP and SNPX protocols. In addition to that, the unit supports several program storage devices that are often used.