GE Series 90-30 Series Service Manual

IC693CPU351

1. Description

The IC693CPU351 is a Series 90-30 component that is manufactured by GE Fanuc. This is a single-slot modular CPU. It is installed with an 80386EX processor with 25MHz clock speed and maximum user program memory of 240Kbytes. It supports 2048 Discrete Inputs, 2048 Discrete outputs, 32,640 (max) Analog input Words and 32640 Analog output Words (max). It has Three (3) serial ports supporting SNP / SNP-X slave protocols on power supply connector, RTU slave and SNP / SPNX master slave of serial ports

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Manufacturer	**GE Fanuc**
Part	**Number IC693CPU351**
Product	**Description Modular CPU**
Product	**type CPU module**
User	**memory 240 Kbytes**
Compatibility	**GE Fanuc 90-30 PLCs**
Processor	**type 80386EX**
Clock	**speed 25 Megahertz**
Typical	**scan rate 0.22 ms per 1K of Boolean logic**
Serial	**ports 3**
Processor	**speeds 25 MHz**
Voltage	**input 5 Volts DC**
Expandable	**Yes**
Current	**input 890 milliamps**
No.	**of extension baseplates Seven (7) expansion baseplate; Seven (7) Remote I/O baseplate**
Operating	**temperature 0 to 60 degrees Celsius**
Discrete	**Input Points - %I 2048**
Key	**switch Yes**
Discrete	**Output Points - %Q 2048**
Analog	**Inputs - %AI 32,640 (max)**
Analog	**Outputs - %AQ 32,640 (max)**
Built-in	**Serial Ports PLC power supply Port: Supports SNP slave and SNP-X slave protocols; Port 1 and 2: RTU slave, SNP/SNPX master/slave**
Timers	**/ Counters >2000**
Interrupts	**No**
Shift	**register Yes**
Current	**load: 890 mA**
Bus	**voltage: +5VDC**
The	**GE Fanuc 90-30 module with catalog number IC693CPU351 is part of the modular CP**

3. Product Information

The IC693CPU351 is a Series 90-30 component that is manufactured by GE Fanuc. This is a single-slot modular CPU. It is installed with an 80386EX processor with 25MHz clock speed and maximum user program memory of 240Kbytes. It supports 2048 Discrete Inputs, 2048 Discrete outputs, 32,640 (max) Analog input Words and 32640 Analog output Words (max). It has Three (3) serial ports supporting SNP / SNP-X slave protocols on power supply connector, RTU slave and SNP / SPNX master slave of serial ports 1 and 2. This processor has typical scan rate of 0.3 milliseconds per 1K of Boolean logic.

Technical specifications for IC693CPU351

Brand GE Fanuc

Series Series 90-30

Manufacturer GE Fanuc

Part Number IC693CPU351

Product Description Modular CPU

Product type CPU module

User memory 240 Kbytes

Compatibility GE Fanuc 90-30 PLCs

Processor type 80386EX

Clock speed 25 Megahertz

Typical scan rate 0.22 ms per 1K of Boolean logic

Serial ports 3

Processor speeds 25 MHz

Voltage input 5 Volts DC

Expandable Yes

Current input 890 milliamps

No. of extension baseplates Seven (7) expansion baseplate; Seven (7) Remote I/O baseplate

Operating temperature 0 to 60 degrees Celsius

Discrete Input Points - %I 2048

Key switch Yes

Discrete Output Points - %Q 2048

Analog Inputs - %AI 32,640 (max)

Analog Outputs - %AQ 32,640 (max)

Built-in Serial Ports PLC power supply Port: Supports SNP slave and SNP-X slave protocols; Port 1 and 2: RTU slave, SNP/SNPX master/slave

Timers / Counters >2000

Interrupts No

Shift register Yes

Current load: 890 mA

Bus voltage: +5VDC

The GE Fanuc 90-30 module with catalog number IC693CPU351 is part of the modular CPU sub-category. This CPU is designed for applications that require higher complexity, faster processing speed and support for large quantity of I/O. This module is a single-slot CPU module that is designed to be mounted to a 5-slot or 10-slot CPU baseplate. The IC693CPU351 supports a large quantity of I/O specifically, 2048 Discrete Input points (%I); 2048 Discrete output points (%Q) and analog I/O words that varies depending on the software used however, the maximum configurable analog I/O is 32, 640 Words, each. Other internal register quantities available to this CPU are 1280 bits of binary global memory; 4096 bits of memory coils; 256 bits of temporary output coils; 128 bits of system status references; maximum of 32640 words of register memory and 28000 Words of system registers which can be used for reference table viewing only. This modular CPU is configurable to communicate and perform I/O data exchange between I/O expansion or Remote I/O baseplates. Specifically, Seven (7) and / or I/O expansion or remote I.O baseplates. For communication with visualization systems such as Human Machine Interface (HMI) or Supervisory Control and Data Acquisition System (SCADA) and other automation devices, the IC693CPU351 is provided with Three (3) Serial ports. One (1) serial port is located on the power supply connectors supporting SNP/SNPX slave while Ports 1 and 2 supports RTU slave, SNP / SNPX master/slave protocols. Installation of communication modules is also supported by this modular CPU.

The GE Fanuc IC693CPU351 CPU is a modular CPU module. The IC693CPU351 CPU is developed for use in Series 90-30 programmable logic controller (PLC) systems. The clock speed of the CPU is 25 Megahertz. The processor type is an 80386EX processor. The IC693CPU351 CPU is part of the GE350 to 364 CPU series which were developed to meet needs of customers that required faster processing speed, increased memory size. The IC693CPU351 CPU is supported by the Logicmaster 90- 30, microprogramming and configuration software that is release version 6.0 and later and the control programming and configuration software that is release version 2.0 and later. The user memory on the IC693CPU351 CPU is 240 KB (supported by the CPU firmware that is release 9.0 and later). For firmware prior to release 9.0, the CPU module memory size is 80 KB. The IC693CPU351 CPU does not support an embedded Ethernet port but there are 3 built-in serial ports on the CPU module. Optional communications modules available for the IC693CPU351 CPU include the Profibus, GBC, Ethernet, GCM and GCM+ modules. Floating-point math functions are supported by the IC693CPU351 CPU. A key switch is also provided on the IC693CPU351 CPU. A sequential event recorder is also available on the module. The internal coils on the module are rated at 4096 bits and the output (temporary) coils are rated at 256 bits. The power requirements of the IC693CPU351 CPU is 5 Volts DC voltage and 890 milliamps of current. A battery-backed clock and override are available on the IC693CPU351 CPU. The operating temperature range is 32 to 140 degrees Fahrenheit.