GE Versamax Series Service Manual

IC200CPUE05

1. Description

The GE Fanuc IC200CPUE05 is a VersaMAx controller module. This controller has a versatile design with 64 KB configurable user memory with embedded One (1) RS232, One (1) RS485 and One (1) Ethernet communication port. This controller has a Boolean execution speed of 0.8 ms /K (typical) and supports up to 64 modules or 2048 I/O points.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**VersaMax**
Part	**Number IC200CPUE05**
Description	**CPU module**
Modules	**64**
I/O	**points 2048**
Serial	**ports RS 232, RS 485**
Boolean	**Execution Speed 0.8 milliseconds**
Memory	**64 K bytes**
SRTP	**Server 8 connections**
Ethernet	**Port One (1) RJ45 port**
Ethernet	**Transmission 10 Mbps, full / half duplex**
EGD	**configuration 32 configurations**
EGD	**Exchange limits 100 data ranges per exchange 1400 bytes of data per exchange**
Installation	**DIN Rail**
Orientation	**Vertical / Horizontal**
Current	**650 milliamperes**
Voltage	**3.3 Volts DC**
The	**GE Fanuc Versamax IC200CPUE05 CPU module comes with a super capacitor that is able to power the memory for up to an hour. A run/stop switch is present in the module for controlling the operations. The CPU is able to process floating point data functions. The CPU module comes with 2 sets of LEDs on the top corner and the lower right corner. It comes with the PWR, OK, RUN, FAULT, FORCE, PORT 1, and PORT 2 LEDs that illuminates when power is present in the module and to send**

3. Product Information

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Technical specifications for IC200CPUE05

Brand GE Fanuc

Series VersaMax

Part Number IC200CPUE05

Description CPU module

Modules 64

I/O points 2048

Serial ports RS 232, RS 485

Boolean Execution Speed 0.8 milliseconds

Memory 64 K bytes

SRTP Server 8 connections

Ethernet Port One (1) RJ45 port

Ethernet Transmission 10 Mbps, full / half duplex

EGD configuration 32 configurations

EGD Exchange limits 100 data ranges per exchange 1400 bytes of data per exchange

Installation DIN Rail

Orientation Vertical / Horizontal

Current 650 milliamperes

Voltage 3.3 Volts DC

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The IC200CPUE05 is a Central Processing Unit (CPU) module that is part of the VersaMax Programmable Logic Controller (PLC) product family. This CPU, also termed as controller is used to execute the downloaded logic to the CPU’s memory. This CPU has a compact form that supports horizontal or vertical mounting onto a DIN rail and highly scalable.

The IC200CPUE05 has 64 Kbytes of user configurable memory and capable of handling up to 64 modules or up to 2048 I/O points. It has embedded One (1) 9-pin sub-D connector that supports RS232 standard, One (1) 15-pin sub-D connector that supports RS485 standard and One (1) Ethernet communication port that supports transmission rate of 10Mbps, Full and Half duplex and capable of up to Eight (8) SRTP connections and Thirty-Two (32) Ethernet Global Data (EGD) configuration-based exchanges.

The IC200CPUE05 supports floating point data format, with Boolean execution speed 0.8 ms/K, typical. It also has a built-in super capacitor that is capable of providing up to 1 hour of data retention, before transferring backup protection to the battery that is capable of up to 6 months. When not utilized, the installed battery’s shelf life is up to 5 years.

The IC200CPUE05 has a variety of revisions available. These revisions include CPUE05-BE FW 2.2, Supports 32-bit register data for Modbus RTU Master; CPUE05-AD FW 2.31 Supports MODBUS Master; CPUE05-AC FW 2.30 increased support for MODBUS Master; CPUE05-AB FW 2.20 with additional serial I/O baud rates and CPUE05-AA FW 2.10 being the initial product release.