GE Series 90-30 Series Service Manual

IC693DSM302

1. Description

The GE Fanuc motion controller known as the IC693DSM302 motion controller is part of GE Series 90-30 and it provides additional capabilities for programmable logic controllers (PLCs). The unit comes with 2 axes and a serial port for firmware updates.

2. Specifications

Specification	Value
Brand	**GE Fanuc**
Series	**Series 90-30**
Part	**Number IC693DSM302**
Compatible	**components Programmable logic controllers**
Block	**processing time Less than 5 milliseconds**
Number	**of axis 2**
Programming	**units resolution (position) -8,388,608 to 8,388,607 user units per second**
Programming	**units resolution (velocity) 1 to 8,388,607 user units per second**
Programming	**units resolution (acceleration) 1 to 134,217,727 user units per second**
Serial	**port RS-232**
Non-volatile	**storage 10 programs and 40 subroutines**
Backplane	**current consumption 450 milliAmps at 5 Volts DC (typical)**
Operating	**temperature 0 to 60 degrees Celsius (32 to 140 degrees Fahrenheit)**
Storage	**temperature -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)**
The	**IC693DSM302 motion controller is a Series 90-30 motion controller produced by GE Fanuc. The unit is compatible with PLC components form the same series and it provides high performance and advanced features in regard to machine control and automation applications. The IC693DSM302**

3. Product Information

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Technical specifications for IC693DSM302

Brand GE Fanuc

Series Series 90-30

Part Number IC693DSM302

Compatible components Programmable logic controllers

Block processing time Less than 5 milliseconds

Number of axis 2

Programming units resolution (position) -8,388,608 to 8,388,607 user units per second

Programming units resolution (velocity) 1 to 8,388,607 user units per second

Programming units resolution (acceleration) 1 to 134,217,727 user units per second

Serial port RS-232

Non-volatile storage 10 programs and 40 subroutines

Backplane current consumption 450 milliAmps at 5 Volts DC (typical)

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

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

The IC693DSM302 motion controller is a Series 90-30 motion controller produced by GE Fanuc. The unit is compatible with PLC components form the same series and it provides high performance and advanced features in regard to machine control and automation applications. The IC693DSM302 controller has 2 axes and it can resolve issues related to communication and operation between different components within the system. The IC693DSM302 motion controller is intended for controlling GE digital servo motors and it includes an integrated digital signal processor that is superior to similar controllers offered by other manufacturers. The IC693DSM302 controller also supports the control of both SL Series analog servos and third-party analog servos. Operation with such a controller requires minimal programming and it allows for the use of external programming devices. The additional programming devices are connected through an included RS-232 serial port which is also used for performing firmware updates.

The GE Series 90-30 IC693DSM302 motion controller features a short block processing time which is less than 5 milliseconds and the related programming units have the following parameters: -8,388,608 to 8,388,607 user units per second for positioning, 1 to 8,388,607 user units per second for the velocity, and 1 to 134,217,727 user units per second for the acceleration. The IC693DSM302 controller comes with an instruction set that allows the users to take full advantage of all its functions and it provides non-volatile storage for up to 10 programs and 40 subroutines. Other features of the IC693DSM302 controller are automatic data transfer, short motion program support, greater tracking accuracy, improved block starting, user scaling, and servo tuning.