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Overview

The ControlLogix5560M03SE controller serves as a link between the ControlLogix platform and intelligent drives. The communication link between the controller and the drive(s) is via IEC/EN 61491 SErial Real-time COmmunication System (SERCOS) using fiber optic medium. Fiber optics assures reliable high speed data transmission with excellent noise immunity, improved performance, and elimination of interconnect wiring.

SERCOS is a real-time optical serial interface between the controller and its associated drives to transmit periodic and non-periodic data. It uses a ring topology with one master and multiple slaves (axes). The 3 Axis SERCOS interface lets the controller control 1 to 3 axes in either position, velocity, or torque mode. It provides a cycle period of 0.5ms, 1ms, or 2ms depending on the number of axes. It provides a ring data rate of 4 Mbaud or 8 Mbaud. The device meets ASA System specifications.

How to Handle ControlLogix Components

ATTENTION

Preventing Electrostatic Discharge

This equipment is sensitive to electrostatic discharge, which can cause internal damage and affect normal operation. Follow these guidelines when you handle this equipment:

- Touch a grounded object to discharge potential static.
- Wear an approved grounding wriststrap.
- Do not touch connectors or pins on component boards.
- Do not touch circuit components inside the equipment.
- If available, use a static-safe workstation.
- When not in use, store the equipment in appropriate static-safe packaging.

Specifications – 1756-L60M03SE Controller

The following specifications apply to the 1756-L60M03SE controller:

Description:	Value:	
Memory	Data and Logic[1]	750K bytes
	I/O[2]	478K bytes
	Nonvolatile[3]	Yes
Backplane Current	@5.1V dc	1.3A
	@24V dc	6mA
Power Dissipation	3.5W	
Thermal Dissipation	11.9 BTU/hr	
Weight	0.52 kg (18.34 oz).	
Operating Temperature	IEC 60068-2-1 (Test Ad, Operating Cold), IEC 60068-2-2 (Test Bd, Operating Dry Heat), IEC 60068-2-14 (Test Nb, Operating Thermal Shock): • 0° to 60° C (32 to 140° F)	
Storage Temperature	IEC 60068-2-1 (Test Ab, Un-packaged Non-operating Cold), IEC 60068-2-2 (Test Bb, Un-packaged Non-operating Dry Heat), IEC 60068-2-14 (Test Na, Un-packaged Non-operating Thermal Shock): • -40° to 85° C (-40 to 185° F)	
Relative Humidity	IEC 60068-2-30 (Test Db, Un-packaged Non-operating Damp Heat): • 5% to 95% noncondensing	
Vibration	IEC60068-2-6 (Test Fc, Operating): • 2g @ 10-500Hz	
Operating Shock	IEC60068-2-27 (Test Ea, Unpackaged Shock): • 30g	
Non-Operating Shock	IEC60068-2-27 (Test Ea, Unpackaged Shock): • 50g	
Emissions	CISPR 11: • Group 1, Class A	