

Allen-Bradley 1756 Series Service Manual

1756-L55M12

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L55M12
Series	ControlLogix
Module	Type Processor Module
RAM	750 Kilobytes
Maximum	I-O 128,000
Maximum	Analog I-O 4,000 Input, 2,000 Output
Program	Scan Time 0.08 milliseconds
Backplane	Current (5Volts DC) 1.23 Amps
Backplane	Current (24 Volts DC) 14 milliamps
Weight	0.78 pounds (0.35 kilograms)
Operating	Temperature 32-140 Fahrenheit (0-60 Celsius)
Vibration	10-500 Hertz
Relative	Humidity 5-95 percent
Battery	1756-BA1 or 1756-BATM
UPC	10612598286628 Description
The	Allen-Bradley 1756-L55M12 is a ControlLogix 5555 controller. This particular controller has an available memory of 750 kbytes for data and logic. It also has an I/O memory of 208 kbytes but it does not have a nonvolatile memory. It weighs 0.35 kg or 12.5 oz and has an open style enclosure type rating.

3. Product Information

Mfr. Part Number:

1756-L55M12

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L55M12 Logix5555 Processor, 750KB Memory

Full Description: Allen-Bradley 1756-L55M12 ControlLogix Logix 5555 Controller, 750 Kbytes User Memory, 208 Kbytes I/O Memory Allen Bradley ControlLogix Processor Module with 750 Kilobytes RAM and 128000 Maximum I-O Technical specifications for 1756-L55M12

Manufacturer Rockwell Automation

Brand Allen-Bradley

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Series ControlLogix

Module Type Processor Module

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Maximum I-O 128,000

Maximum Analog I-O 4,000 Input, 2,000 Output

Program Scan Time 0.08 milliseconds

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It can support different modes of communication available in the system, such as ControlNet, EtherNet/IP, DH+, DeviceNet, and universal remote I/O networks.

The backplane current of the 1756-L55M12 controller is 1.23 A at 5.1V DC and 0.014 A at 24V DC. It has a power dissipation of 5.6W and a thermal dissipation of 19.1 BTU/hr. It has a conducted RF immunity of 10V rms with 1 kHz sine-wave 80% AM from 150 kHz to 80 MHz. It also has an isolation voltage of 30V, which is continuous and a basic insulation type. The 1756-L55M12 controller has been tested to withstand 707V DC for 60 s.

A lithium battery with category number 1756-BA1 and weighing 0.59 g is used by this battery. You should only order a replacement when needed. It has a wiring category of 2 on its communication ports and is compatible with either the 1756-CP3 or 1747-CP3 serial cables. This controller, together with other 1756-L55 controllers, can be used in a redundant controller system but they should be in a ControlNet network.

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It has an operating temperature between 0 to 60 Degrees Celsius and a storage temperature of -40 to 85 Degrees Celsius. It also has a relative humidity of 5% to 95% (noncondensing). The controller also has an operating shock of 30 g, a non-operating shock of 50 g, and a vibration of 2 g at 10 to 500 Hz.