

Allen-Bradley 1756 Series Service Manual

1756-L55M13

1. Description

Mfr. Part Number:

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L55M13
Series	ControlLogix
Module	Type Processor Module
RAM	1.5 MB
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	10612598269645 Description
The	Allen-Bradley 1756-L55M13 is a Series A ControlLogix 5555 controller. While this particular controller does not have a nonvolatile memory available, it does have a 1.5 Mbytes data and logic memory and 208 kbytes I/O memory available. The 1756-L55M13 controller also has a weight of 0.35 g or 12.5 oz. It does not have an enclosure type rating since it is an open-style controller.

3. Product Information

www.oilautotech.com

Mfr. Part Number:

1756-L55M13

Manufacturer: Allen-Bradley / Rockwell Automation

Description: Allen-Bradley 1756-L55M13 Logix5555 Processor, 1.5MB Memory

Full Description: Allen-Bradley 1756-L55M13 ControlLogix Logix5555 Controller with 1.5Mbyte User Memory and 208 Kbytes I/O Memory Allen Bradley ControlLogix Processor Module with 1.5 MB RAM and 128000 Maximum I-O Technical specifications for 1756-L55M13

Manufacturer Rockwell Automation

Brand Allen-Bradley

Part Number/Catalog No. 1756-L55M13

Series ControlLogix

Module Type Processor Module

RAM 1.5 MB

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 also has the capacity to support the following communication options: DeviceNet, ControlNet, Ethernet/IP, Universal Remote I/O serial, Data Highway Plus, Modbus via ladder routine, SynchLink, and DH-485.

The 1756-L55M13 has backplane currents of 0.014A at 24V DC and 1.23 A at 5.1V DC. Its thermal dissipation is 19.1 BTU/hr, while its power dissipation is 5.6W. It has a basic insulation type and a continuous isolation voltage of 30V and has also been tested to withstand 107V DC for 60 s. The conducted RF immunity of the 1756-L55M13 controller is 10V rms with 1 kHz sine-wave 80%AM from 150 kHz to 80 MHz.

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

This controller has batteries that can be replaced but only if needed and is only compatible with the 1756-BA1 lithium battery. It can only be connected with either the 1756-CP3 or 1747-CP3 programming cable. The 1756-L55M13 controller can be used in a redundant controller system but it needs to be located in the same ControlNet network.