

Allen-Bradley 1756 Series Service Manual

1756-L1M3

1. Description

The 1756-L1M3 is an authentic Allen-Bradley controller that comes with a user memory of 2 MB. This controller, which belongs to the ControlLogix 5550 series, has an I/O memory of 150 KB. However, the 1756-L1M3 does not come with a nonvolatile memory or an enclosure system. This Allen-Bradley controller weighs 12.7 ounces (0.36 grams or 12.7 ounces) and it is characterized with Group 1 and Class 1 emissions and the Group 1, Class A classifications. The 1756-L1M3's peak backplane current is 1.20 A

2. Specifications

Specification	Value
Manufacturer	Rockwell Automation
Brand	Allen-Bradley
Part	Number/Catalog No. 1756-L1M3
Series	ControlLogix
Module	Type Processor Module
Expansion	Memory 2 MB
Enclosure	Open
Isolation	Voltage 30 Volts Continuous
Operating	Temperature 32-140 Fahrenheit (0-60 Celsius)
Minimum	Operating Current 2 milliamps at 10 Volts DC
Maximum	Operating Current 3.5 milliamps at 30 Volts DC
Maximum	Input Current, Off-State 1.5 milliamps
Power	Dissipation (Max) 4.1 Watts at 60 degrees Celsius
Backplane	Current at 5 Volts 120 milliamps
Backplane	Current at 24 Volts 2 milliamps
Removeable	Terminal Block(s) 1756-TBCH, 1756-TBS6H
UPC	10612598181008 Description
The	Allen-Bradley 1756-L1M3 is a ControlLogix 5550 controller that has a user available memory of 2 Mb and an I/O memory of 150 kb. It does not have a nonvolatile memory nor an enclosure. The 1756-L1M3 controller weighs 0.36 grams or 12.7 ounces and has emissions of Group 1, Class A. This controller has a peak backplane current of 1.20 Amps at 5.1 Volts

3. Product Information

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The 1756-L1M3 can operate at a temperature of 0 to 60 degrees Celsius. This means that the module is highly versatile and it can be used in different industrial applications—including those considered to be extremely demanding. The 1756-L1M3 should be stored at a temperature of between -40 and 80 degrees Celsius. Plus, to optimize its functionality, ensure that the 1756-L1M3 operates at a non-condensing humidity range of about 5 to 95%. The 1756-L1M3 can withstand a vibration level of up to 2.0 G with a maximum peak acceleration of 10 to 500 Hertz. Moreover, the 1756-L1M3 can operate at a shock level of 30 G peak for 11 milliseconds. Remember to store the 1756-L1M3 in a location with a shock of 50 G peak for 11 milliseconds (its optimal storage shock capacity). The 1756-L1M3 is versatile and it comes with powerful features. This makes the unit highly dependable when it comes to different industrial applications. Allen Bradley ControlLogix Processor Module with 2 MB Expansion Memory and Open Enclosure Technical specifications for 1756-L1M3

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Brand Allen-Bradley

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Series ControlLogix

Module Type Processor Module

Expansion Memory 2 MB

Enclosure Open

Isolation Voltage 30 Volts Continuous

Operating Temperature 32-140 Fahrenheit (0-60 Celsius)

Minimum Operating Current 2 milliamps at 10 Volts DC

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Power Dissipation (Max) 4.1 Watts at 60 degrees Celsius

Backplane Current at 5 Volts 120 milliamps

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The Allen-Bradley 1756-L1M3 is a ControlLogix 5550 controller that has a user available memory of 2 Mb and an I/O memory of 150 kb. It does not have a nonvolatile memory nor an enclosure. The 1756-L1M3 controller weighs 0.36 grams or 12.7 ounces and has emissions of Group 1, Class A. This controller has a peak backplane current of 1.20 Amps at 5.1 Volts DC and 0.02 Amps at 24 Volts DC. It has an average power dissipation of 5.4 Watts and an average thermal dissipation of 18.4 BTU/hour. It also has an isolation voltage of 30 Volts. The 1756-L1M3 has been tested to withstand 500 Volts for 60 seconds. The operating temperature of the 1756-L1M3 controller ranges from 0 to 60 Degrees Celsius, while its storage temperature is from -40 to 85 Degrees Celsius. A noncondensing relative humidity of 5% to 95% exists with this controller. A vibration of the 1756-L1M3 controller is a 2.0 G maximum peak acceleration at 10 to 500 Hertz. Its operating shock is 30 G peak for 11 milliseconds, while its storage shock is 50 G peak for 11 milliseconds. The 1756-L1M3 controller has an ESD immunity of 6 kilovolts for contact discharges and 8 kV for air discharges. It also has a radiated RF immunity of 10 Volts/m with 1 kilohertz sine-wave 80%AM from 30 Megahertz to 1000 Megahertz and 10 Volts/m with 200 Hertz 50% Pulse 100%AM at 900 Megahertz. Its EFT/B immunity is +/-4 kilovolts at 2.5 kilohertz on power ports and +/-2 kilovolts at 5 kilohertz on communication ports and its conducted RF immunity is 10Vrms with 1 kilohertz sine-wave 80%AM from 150 kilohertz to 80 kilohertz. The programming cables compatible with the 1756-L1M3 are the serial cable category 3 1756-CP3 and 1747-CP3 cables, while the replacement battery compatible is the 1756-BA1 0.59 lithium battery only.