Apter Power

Installation Instructions

ControlLogix Controller and Memory Board

Catalog Numbers 1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3, 1756-L55, 1756-L55M12, 1756-L55M13, 1756-L55M14, 1756-L55M16, 1756-L55M22, 1756-L55M23, 1756-L55M24, 1756-L61, 1756-L62, 1756-L63, 1756-L64, 1756-L65, 1756-M1, 1756-M2, 1756-M3, 1756-M12, 1756-M13, 1756-M14, 1756-M16, 1756-M22, 1756-M23, 1756-M24, 1784-CF64, 1784-CF128

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Before You Begin

Read this section for important information about using these products, noting that this publication covers the products shown in the table.

Product	Cat. No.	Series
ControlLogix5550 controller	1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3	A
ControlLogix5555 controller	1756-L55, 1756-L55M12, 1756-L55M13, 1756-L55M14, 1756-L55M16, 1756-L55M22, 1756-L55M23, 1756-L55M24	A
ControlLogix5561 controller	1756-L61	A, B
ControlLogix5562 controller	1756-L62	A, B
ControlLogix5563 controller	1756-L63	A, B
ControllLogix5564 controller	1756-L64	B
ControlLogix5565 controller	1756-L65	B
ControlLogix5550 memory board	1756-M1, 1756-M2, 1756-M3	A
ControlLogix5555 memory board	1756-M12, 1756-M13, 1756-M14, 1756-M16, 1756-M22, 1756-M23, 1756-M24	A
Industrial CompactFlash card	1784-CF64, 1784-CF128	A

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Use the following table to determine which firmware revisions to use with your controller and memory board combination.

Controller and Memory Board Combinations

Controller and Memory Board	Series	Use this revision or later	
1756-L1	None	Any.	
1756-L1M1			
1756-L1M2			
1756-L1M3			
1756-L55M12		10.*x* or later.	
1756-L55M13		6.*x* or later.	
1756-L55M14			
1756-L55M16			
1756-L55M22		10.*x* or later.	
1756-L55M23		8.*x* or later.	
1756-L55M24			
1756-L61	A	12.*x* or later.	
	B	13.40 or later.	
1756-L62	A	12.*x* or later.	
	B	13.40 or later.	
1756-L63	A	**No** CompactFlash card	10.*x* or later.
		CompactFlash card	11.*x* or later.
	B	13.40 or later.	
1756-L64	B	16 or later.	
1756-L65	B	17 or later.	

Make sure that the firmware revision is compatible with your version of RSLogix 5000 software.

ControlLogix Controller Common Specifications - 1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3, 1756-L55, 1756-L55M12, 1756-L55M13, 1756-L55M14, 1756-L55M16, 1756-L55M22, 1756-L55M23, 1756-L55M24, 1756-L61, 1756-L62, 1756-L63, 1756-L64, and 1756-L65

Attribute	Value
Temperature, operating	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 … 60 °C (32…140 °F)
Temperature, storage	IEC 60068-2-1 (Test Ab, Unpackaged Nonoperating Cold), IEC 60068-2-2 (Test Bb, Unpackaged Nonoperating Dry Heat), IEC 60068-2-14 (Test Na, Unpackaged Nonoperating Thermal Shock): • -40… 85 °C (-40…185 °F)
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): • 5…95% noncondensing
Vibration	IEC60068-2-6 (Test Fc, Operating): • 2 g @ 10…500 Hz
Shock, operating	IEC60068-2-27 (Test Ea, Unpackaged Shock): • 30 g
Shock, nonoperating	IEC60068-2-27 (Test Ea, Unpackaged Shock): • 50 g
Emissions	CISPR 11: • Group 1, Class A
ESD immunity	IEC 61000-4-2: • 6 kV contact discharges • 8 kV air discharges
Radiated RF immunity	IEC 61000-4-3: • 10V/M with 1 kHz sine-wave 80% AM from 80…2000 MHz • 10V/M with 200 Hz 50% Pulse 100% AM at 900 Mhz • 10V/M with 200 Hz 50% Pulse 100% AM at 1890 Mhz • 1V/m with 1 kHz line-wave 80% AM from 2.0…2.7 GHz
EFT/B immunity	IEC 61000-4-4: • ±4 kV at 5 kHz on communications ports
Surge transient immunity	IEC 61000-4-5: • ±2 kV line earth (CM) on communications ports

ControlLogix Controller Common Specifications - 1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3, 1756-L55, 1756-L55M12, 1756-L55M13, 1756-L55M14, 1756-L55M16, 1756-L55M22, 1756-L55M23, 1756-L55M24, 1756-L61, 1756-L62, 1756-L63, 1756-L64, and 1756-L65

Attribute	Value
Conducted RF immunity	IEC 61000-4-6: • 10V rms with 1 kHz sine-wave 80% AM from 150 kHz…80 MHz
Enclosure type rating	None, open style
Isolation voltage	30V (continuous), Basic Insulation Type, RS232 to system • Controllers type tested to withstand 707V DC for 60 s
Wiring category[1]	2 - on communications ports
Programming cable	1756-CP3 or 1747-CP3 serial cable
North American temperature code	T4A
IEC temperature code	T4
Intrinsically safe	No
Replacement battery	1756-L1, 1756-L1M1, 1756-L1M2, 1756-L1M3: 1756-BA1 (0.59 g lithium) 1756-L55, 1756-L55M12, 1756-L55M13, 1756-L55M14, 1756-L55M16, 1756-L55M22, 1756-L55M23, 1756-L55M24: 1756-BA1 (0.59 g lithium) 1756-L61/A, 1756-L62/A, 1756-L63/A: 1756-BA1 (0.59 g lithium) 1756-L61/B, 1756-L62/B, 1756-L63/B, 1756-L64/B, 1756-L65/B: 1756-BA2(0.50 g lithium) 1756-BATM battery module: 1756-BATA (10 g lithium)

[1] Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1.