

## Specifications

### Specifications - ControlLogix Controllers

Cat. No.	Memory		Non-volatile Memory	Backplane Current		Power Dissipation	Thermal Dissipation	Weight, approx.
	Data and Logic <sup>(1)</sup>	Yes <sup>(2)</sup>		@ 5.1V DC	@ 24V DC			
1756-L55M22	750 KB	208 KB	Yes	1.23 A	0.014 A	5.6 W	19.1 BTU/hr	0.35 kg (12.5 oz)
1756-L55M23	1.5 MB							0.35 kg (12.5 oz)
1756-L55M24	3.5 MB			1.25 A	5.7 W	19.4 BTU/hr	0.36 kg (12.8 oz)	
1756-L61/A	2 MB	478 KB	Yes <sup>(3)</sup>	1.20 A	14 mA	3.5 W	11.9 BTU/hr	0.32 kg (11.3 oz)
1756-L62/A	4 MB							
1756-L63/A	8 MB							
1756-L61/B	2 MB							
1756-L62/B	4 MB							
1756-L63/B	8 MB							
1756-L64/B	16 MB							
1756-L65/B	32MB							0.35 kg (12.4 oz)

<sup>(1)</sup> Data and logic memory stores: tags other than I/O, produced, or consumed tags; logic routines; and communication with OPC/DDE tags that use RSLinx software (also uses I/O memory).

<sup>(2)</sup> I/O memory stores: I/O tags, produced tags, consumed tags, communication via Message (MSG) instructions, communication with workstations, and communication with OPC/DDE tags that use RSLinx software (also uses data and logic memory).

<sup>(3)</sup> Requires a 1784-CF64 Industrial CompactFlash card.

**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): <ul style="list-style-type: none"> <li>0 ... 60 °C (32...140 °F)</li> </ul>
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): <ul style="list-style-type: none"> <li>-40... 85 °C (-40...185 °F)</li> </ul>
Relative humidity	IEC 60068-2-30 (Test Db, Unpackaged Damp Heat): <ul style="list-style-type: none"> <li>5...95% noncondensing</li> </ul>
Vibration	IEC60068-2-6 (Test Fc, Operating): <ul style="list-style-type: none"> <li>2 g @ 10...500 Hz</li> </ul>
Shock, operating	IEC60068-2-27 (Test Ea, Unpackaged Shock): <ul style="list-style-type: none"> <li>30 g</li> </ul>
Shock, nonoperating	IEC60068-2-27 (Test Ea, Unpackaged Shock): <ul style="list-style-type: none"> <li>50 g</li> </ul>
Emissions	CISPR 11: <ul style="list-style-type: none"> <li>Group 1, Class A</li> </ul>
ESD immunity	IEC 61000-4-2: <ul style="list-style-type: none"> <li>6 kV contact discharges</li> <li>8 kV air discharges</li> </ul>
Radiated RF immunity	IEC 61000-4-3: <ul style="list-style-type: none"> <li>10V/M with 1 kHz sine-wave 80% AM from 80...2000 MHz</li> <li>10V/M with 200 Hz 50% Pulse 100% AM at 900 Mhz</li> <li>10V/M with 200 Hz 50% Pulse 100% AM at 1890 Mhz</li> <li>1V/m with 1 kHz line-wave 80% AM from 2.0...2.7 GHz</li> </ul>
EFT/B immunity	IEC 61000-4-4: <ul style="list-style-type: none"> <li>±4 kV at 5 kHz on communications ports</li> </ul>
Surge transient immunity	IEC 61000-4-5: <ul style="list-style-type: none"> <li>±2 kV line earth (CM) on communications ports</li> </ul>

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Attribute	Value
Conducted RF immunity	IEC 61000-4-6: <ul style="list-style-type: none"> <li>10V rms with 1 kHz sine-wave 80% AM from 150 kHz...80 MHz</li> </ul>
Enclosure type rating	None, open style
Isolation voltage	30V (continuous), Basic Insulation Type, RS232 to system <ul style="list-style-type: none"> <li>Controllers type tested to withstand 707V DC for 60 s</li> </ul>
Wiring category <sup>(1)</sup>	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)

<sup>(1)</sup> Use this Conductor Category information for planning conductor routing. Refer to Industrial Automation Wiring and Grounding Guidelines, publication [1770-4.1](#).