

CompactLogix Controllers Specifications

CompactLogix 5370 and Compact GuardLogix 5370 Controller Catalog Numbers

1769-L16ER-BB1B, 1769-L18ER-BB1B, 1769-L18ERM-BB1B, 1769-L18ERM-BB1BK, 1769-L19ER-BB1B, 1769-L19ER-BB1BK, 1769-L24ER-QB1B, 1769-L24ER-QBFC1B, 1769-L24ER-QBFC1BK, 1769-L27ERM-QBFC1B, 1769-L30ER, 1769-L30ER-NSE, 1769-L30ERK, 1769-L30ERM, 1769-L30ERMK, 1769-L30ERMS, 1769-L33ER, 1769-L33ERK, 1769-L33ERM, 1769-L33ERMK, 1769-L33ERMS, 1769-L33ERMSK, 1769-L36ERM, 1769-L36ERMS, 1769-L37ERM, 1769-L37ERMK, 1769-L37ERMS, 1769-L37ERMSK, 1769-L38ERM, 1769-L38ERMK, 1769-L38ERMS, 1769-L38ERMSK

Armor CompactLogix and Armor Compact GuardLogix Controller Catalog Numbers

1769-L33ERMO, 1769-L33ERMOS, 1769-L36ERMO, 1769-L36ERMOS, 1769-L37ERMO, 1769-L37ERMOS, 1769-L38ERMO, 1769-L38ERMOS

1769 Packaged Controller Catalog Numbers

1769-L23-QBFC1B, 1769-L23E-QB1B, 1769-L23E-QBFC1B

1769 Modular Controller Catalog Numbers

1769-L31, 1769-L32C, 1769-L35CR, 1769-L32E, 1769-L32EK, 1769-L35E

1768 Controller Catalog Numbers

1768-L43, 1768-L43S, 1768-L45, 1768-L45S

Memory Card Catalog Numbers

1784-CF128, 1784-SD1, 1784-SD2

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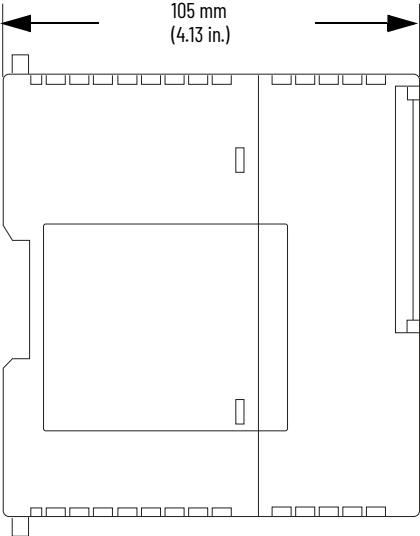
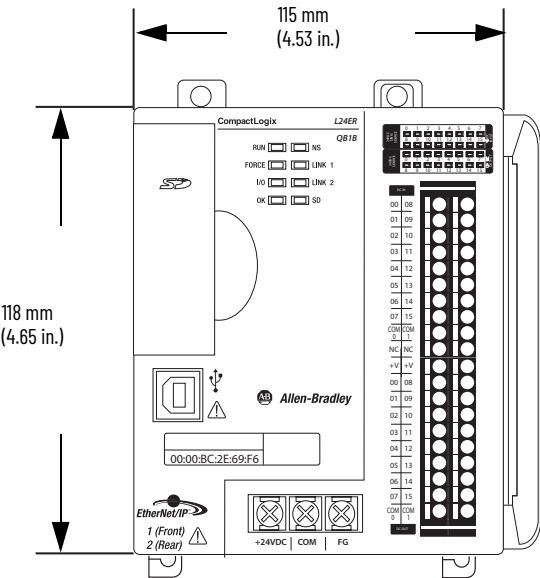


Technical Specifications - CompactLogix 5370 Controllers and Compact GuardLogix 5370 Controllers

Attribute	1769-L16ER-BB1B, 1769-L18ER-BB1B, 1769-L18ERM-BB1B, 1769-L18ERM-BB1BK, 1769-L19ER-BB1B, 1769-L19ER-BB1BK	1769-L24ER-QB1B, 1769-L24ER-QBFC1B, 1769-L24ER-QBFC1BK, 1769-L27ERM-QBFC1B	1769-L30ER, 1769-L30ER-NSE, 1769-L30ERK, 1769-L30ERM, 1769-L30ERMK, 1769-L33ER, 1769-L33ERK, 1769-L33ERM, 1769-L33ERMK, 1769-L36ERM, 1769-L37ERM, 1769-L37ERMK, 1769-L38ERM, 1769-L38ERMK	1769-L30ERMS, 1769-L33ERMS, 1769-L33ERMK, 1769-L36ERMS, 1769-L37ERMS, 1769-L37ERMK, 1769-L38ERMS, 1769-L38ERMK
User memory	<ul style="list-style-type: none"> 1769-L16ER-BB1B: 384 KB 1769-L18ER-BB1B, 1769-L18ERM-BB1B, 1769-L18ERM-BB1BK: 512 KB 1769-L19ER-BB1B, 1769-L19ER-BB1BK: 1 MB 	<ul style="list-style-type: none"> 1769-L24ER-QB1B, 1769-L24ER-QBFC1B, 1769-L24ER-QBFC1BK: 750 KB 1769-L27ERM-QBFC1B: 1 MB 	<ul style="list-style-type: none"> 1769-L30ER, 1769-L30ER-NSE, 1769-L30ERK, 1769-L30ERM, 1769-L30ERMK: 1 MB 1769-L33ER, 1769-L33ERK, 1769-L33ERM, 1769-L33ERMK: 2 MB 1769-L36ERM: 3 MB 1769-L37ERM, 1769-L37ERMK: 4 MB 1769-L38ERM, 1769-L38ERMK: 5 MB 	<ul style="list-style-type: none"> 1769-L30ERMS: 1 MB standard + 0.5 MB safety 1769-L33ERMS, 1769-L33ERMK: 2 MB standard + 1 MB safety 1769-L36ERMS: 3 MB standard + 1.5 MB safety 1769-L37ERMS, 1769-L37ERMK: 4 MB standard + 1.5 MB safety 1769-L38ERMS, 1769-L38ERMK: 5 MB standard + 1.5 MB safety
Optional nonvolatile memory	1784-SD1 card with 1 Gb of available memory (shipped with controller) 1784-SD2 card with 2 Gb of available memory (available for separate ordering)			
Number of local expansion modules, max ⁽¹⁾	<ul style="list-style-type: none"> 1769-L16ER-BB1B: 6 - 1734 POINT I/O™ modules 1769-L18ER-BB1B, 1769-L18ERM-BB1B, 1769-L18ERM-BB1BK, 1769-L19ER-BB1B, 1769-L19ER-BB1BK: 8 - 1734 POINT I/O modules 	4 - 1769 Compact I/O™ modules	<ul style="list-style-type: none"> 1769-L30ER, 1769-L30ER-NSE, 1769-L30ERK, 1769-L30ERM, 1769-L30ERMK, 1769-L30ERMS: 8 - 1769 Compact I/O modules 1769-L33ER, 1769-L33ERK, 1769-L33ERM, 1769-L33ERMK, 1769-L33ERMS, 1769-L33ERMK: 16 - 1769 Compact I/O modules 1769-L36ERM, 1769-L36ERMS: 30 - 1769 Compact I/O modules 1769-L37ERM, 1769-L37ERMK, 1769-L37ERMS, 1769-L37ERMK: 31 - 1769 Compact I/O modules 1769-L38ERM, 1769-L38ERMK, 1769-L38ERMS, 1769-L38ERMK: 31 - 1769 Compact I/O modules 	
Number of I/O module banks, max	-	1	3	
Current draw @ 5V DC, controller power	1 A	<ul style="list-style-type: none"> 1769-L24ER-QB1B: 1.54 A Value rated at the following ambient temperatures: 40 °C (104 °F), 55 °C (131 °F), 60 °C (140 °F). 1769-L24ER-QBFC1B and 1769-L27ERM-QBFC1B: 1 A Value rated at the following ambient temperatures: 40 °C (104 °F), 55 °C (131 °F), 60 °C (140 °F). 	500 mA	850 mA
Current draw @ 24V DC, controller power	-	<ul style="list-style-type: none"> 1769-L24ER-QB1B: 0.95 A Value rated at the following ambient temperatures: 40 °C (104 °F), 55 °C (131 °F), 60 °C (140 °F). 1769-L24ER-QBFC1B and 1769-L27ERM-QBFC1B: 0.8 A Value rated at the following ambient temperatures: 40 °C (104 °F), 55 °C (131 °F), 60 °C (140 °F). 	225 mA	700 mA
Current draw @ 24V DC, field power, max	3 A - Combined total for all devices that draw current from field power connections Input: 5 mA Output: 500 mA		-	
Power dissipation, max	11.5 W	<ul style="list-style-type: none"> 1769-L24ER-QB1B: 12 W 1769-L24ER-QBFC1B, L27ERM-QBFC1B: 21 W 	4.5 W	6.5 W
Isolation voltage	50V (continuous), Basic Insulation Type Tested at 500V AC for 60 s, System to Field	30V (continuous), Basic Insulation Type, USB to system, Ethernet to system and Ethernet to Ethernet Type tested at 500V AC for 60 s		50V, Basic Insulation Type Tested at 500V AC for 60 s, System to Communication ports.
Short circuit protection, field power	Internal fuse, Non-replaceable		-	
Recommended external short circuit protection, field power	User-provided 4...5 A @ 3.15...5.5 A ² t fuse		-	
Weight, approx	0.66 kg (1.5 lb)	<ul style="list-style-type: none"> 1769-L24ER-QB1B = 0.63 kg (1.39 lb) 1769-L24ER-QBFC1B and 1769-L27ERM-QBFC1B = 0.9 kg (1.9 lb) 	0.31 kg (0.68 lb)	0.54 kg (1.18 lb)

CompactLogix 5370 L2 Controllers Dimensions

1769-L24ER-QB1B



1769-L24ER-QBFC1B, 1769-L24ER-QBFC1BK, 1769-L27ERM-QBFC1B
 (Dimensions are the same on both controller catalog numbers.)

