



⚠ Discontinued

LC1K090045E7 has not been replaced. Please contact your customer care center for more information.

Main

Range	TeSys
Product or component type	Contactors
Product name	TeSys K
Device short name	LC1K
Device application	Control
Contactors application	Resistive load

Complementary

Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[U _e] rated operational voltage	Power circuit 690 V AC 50/60 Hz
[I _e] rated operational current	20 A 122 °F (50 °C) \leq 440 V AC AC-1 power circuit 16 A 158 °F (70 °C) 690 V AC AC-1 power circuit
Control circuit type	AC 50/60 Hz
[U _c] control circuit voltage	48 V AC 50/60 Hz
[U _{imp}] rated impulse withstand voltage	8 kV
Overvoltage category	III
[I _{th}] conventional free air thermal current	20 A 122 °F (50 °C) power circuit
Irms rated making capacity	110 A AC power circuit NF C 63-110 110 A AC power circuit IEC 60947
Rated breaking capacity	110 A 415 V IEC 60947 110 A 440 V IEC 60947 80 A 500 V IEC 60947 110 A 220...230 V IEC 60947 110 A 380...400 V IEC 60947 70 A 660...690 V IEC 60947
[I _{cw}] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s power circuit 85 A 122 °F (50 °C) - 5 s power circuit

	80 A 122 °F (50 °C) - 10 s power circuit 60 A 122 °F (50 °C) - 30 s power circuit 45 A 122 °F (50 °C) - 1 min power circuit 40 A 122 °F (50 °C) - 3 min power circuit 20 A 122 °F (50 °C) - >= 15 min power circuit
Associated fuse rating	25 A gG <= 440 V power circuit 25 A aM power circuit
Average impedance	3 mOhm - lth 20 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA C22.2 No 14
Inrush power in VA	30 VA 68 °F (20 °C))
Hold-in power consumption in VA	4.5 VA 68 °F (20 °C))
Heat dissipation	1.3 W
Control circuit voltage limits	Operational 0.8...1.15 U _c 122 °F (50 °C)) Drop-out 0.2...0.75 U _c 122 °F (50 °C))
Connections - terminals	solder pins 1.5 x 0.9 mm
Maximum operating rate	3600 cyc/h
Signalling circuit frequency	<= 400 Hz
Mounting support	Printed circuit boards
Operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 <= 440 V
Mechanical robustness	Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Net weight	0.40 lb(US) (0.18 kg)

Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	UL CSA
IP degree of protection	IP2x VDE 0106
Protective treatment	TC IEC 60068 TC DIN 50016
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	6561.68 ft (2000 m) without
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102

Ordering and shipping details

Category	22326-CTR,K-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	03389110488548

Returnability	No
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Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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