



ⓘ Discontinued

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

## Main

Range	TeSys
Product or component type	Contactor
Product name	TeSys K
Device short name	LC7K
Device application	Control
Contactor application	Resistive load

## Complementary

Utilisation category	AC-1
Poles description	4P
Power pole contact composition	2 NO + 2 NC
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz
[Ie] rated operational current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit
Control circuit type	AC at 50/60 Hz silent
[Uc] control circuit voltage	24 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A (at 50 °C) for power circuit
Rms rated making capacity	110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
[Icw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit 40 A 50 °C - 3 min for power circuit 20 A 50 °C - >= 15 min for power circuit
Associated fuse rating	25 A gG at <= 440 V for power circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	25 A aM for power circuit
Average impedance	3 mOhm - lth 20 A 50 Hz for power circuit
[U <sub>i</sub> ] rated insulation voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA C22.2 No 14
Inrush power in VA	3 VA (at 20 °C)
Hold-in power consumption in VA	3 VA (at 20 °C)
Heat dissipation	3 W
Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> (at <50 °C) Drop-out: 0.1...0.75 U <sub>c</sub> (at <50 °C)
Connections - terminals	Faston terminals 2 cable(s) - busbar cross section: 2.8 mm Faston terminals 1 cable(s) - busbar cross section: 6.35 mm
Maximum operating rate	3600 cyc/h
Signalling circuit frequency	<= 400 Hz
Mounting support	Plate Rail
Operating time	30...40 ms coil energisation and NO closing 25...35 ms coil energisation and NC opening 30 ms coil de-energisation and NO opening 40 ms coil de-energisation and NC closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 at U <sub>e</sub> <= 440 V
Mechanical robustness	Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6
Height	58 mm
Width	45 mm
Depth	57 mm
Net weight	0.225 kg

## Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	UL CSA
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Ambient air temperature for operation	-25...50 °C
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

## Contractual warranty

Warranty	18 months
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