



Main

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

Complementary

Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit 690 V AC 50 Hz Signalling circuit 690 V AC 50 Hz
[Ie] rated operational current	12 A ≤ 440 V AC AC-3 power circuit 20 A 50 °C) ≤ 440 V AC AC-1 power circuit 16 A 70 °C) 690 V AC AC-1 power circuit
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	230 V AC 50 Hz
Motor power kW	3 kW 220...230 V AC 50 Hz AC-3 5,5 kW 380...415 V AC 50 Hz AC-3 5,5 kW 440 V AC 50 Hz AC-3 4 kW 480 V AC 50 Hz AC-3 4 kW 500...600 V AC 50 Hz AC-3 4 kW 660...690 V AC 50 Hz AC-3 2,2 kW 400 V AC 50 Hz AC-4
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV

Overvoltage category	III
[Ith] conventional free air thermal current	20 A 50 °C power circuit 10 A 50 °C signalling circuit
Irms rated making capacity	110 A AC signalling circuit IEC 60947 144 A AC power circuit NF C 63-110 144 A AC power circuit IEC 60947
Rated breaking capacity	110 A 440 V IEC 60947 80 A 500 V IEC 60947 70 A 660...690 V IEC 60947
[Icw] rated short-time withstand current	115 A 50 °C - 1 s power circuit 105 A 50 °C - 5 s power circuit 100 A 50 °C - 10 s power circuit 75 A 50 °C - 30 s power circuit 55 A 50 °C - 1 min power circuit 50 A 50 °C - 3 min power circuit 80 A - 1 s signalling circuit 90 A - 500 ms signalling circuit 110 A - 100 ms signalling circuit 25 A 50 °C - >= 15 min power circuit
Associated fuse rating	25 A gG <= 440 V power circuit 25 A aM power circuit 10 A gG signalling circuit IEC 60947 10 A gG signalling circuit VDE 0660
Average impedance	3 mOhm - Ith 20 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V UL 60947-4-1 Power circuit 600 V CSA C22.2 No 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 600 V UL 60947-4-1 Signalling circuit 600 V CSA C22.2 No 60947-4-1
Insulation resistance	> 10 MOhm signalling circuit
Inrush power in VA	30 VA 20 °C)
Hold-in power consumption in VA	4,5 VA 20 °C)
Heat dissipation	1,3 W
Control circuit voltage limits	Operational 0.8...1.15 Uc 50 °C) Drop-out 0.2...0.75 Uc 50 °C)
Connections - terminals	screw clamp terminals 1 1,5...4 mm²solid screw clamp terminals 1 0,75...4 mm²flexible without cable end screw clamp terminals 1 0,34...2,5 mm²flexible with cable end screw clamp terminals 2 1,5...4 mm²solid screw clamp terminals 2 0,75...4 mm²flexible without cable end screw clamp terminals 2 0,34...1,5 mm²flexible with cable end
Maximum operating rate	3600 cyc/h
Auxiliary contacts type	Instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Mounting support	Plate Rail
Tightening torque	1,3 N.m screw clamp terminals Philips No 2 1,3 N.m screw clamp terminals flat Ø 6 mm
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
Non overlap distance	0,5 mm
Mechanical durability	10 Mcycles
Electrical durability	1,3 Mcycles 12 A AC-3 <= 440 V 0,3 Mcycles 20 A AC-1 <= 440 V
Mechanical robustness	Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 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	58 mm
Width	45 mm
Maksimalna dubina	57 mm
Net weight	0,18 kg

Environment

Standards	EN/IEC 60947-4-1 IEC 60947-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 BS 5424 NF C 63-110 VDE 0660
Product certifications	UL CSA CCC EAC KC LROS (Lloyds register of shipping) DNV-GL RINA BV
IP degree of protection	IP20 VDE 0106
Protective treatment	TC IEC 60068 TC DIN 50016
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without derating
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102

Broj pakirnih jedinica

Vrsta pakirne jedinice Paketa 1	PCE
Broj pakirnih jedinica u Paketu 1	1
Paket 1 Težina	180,67 g
Paket 1 Visina	4,9 cm
Paket 1 Širina	6 cm
Paket 1 Duljina	6,5 cm

Offer Sustainability

Status održive ponude	Proizvod Green Premium
REACH, bez SVHC	Da
Direktiva EU RoHS	Sukladno Izjava EU RoHS
Bez otrovnih teških metala	Da
Bez žive	Da
Informacije o RoHS izuzeću	Da
Propis RoHS za Kinu	Izjava RoHS za Kinu Proaktivna izjava RoHS za Kinu (izvan pravnog doseg propisa RoHS za Kinu)
Izjava o očuvanju okoliša	Ekološki profil proizvoda
Profil cirkularnosti	Informacije o kraju vijeka trajanja
WEEE	Proizvod se na tržištima EU mora odlagati u skladu sa specifičnim propisima o prikupljanju otpada; nikako se ne smije odlagati s komunalnim otpadom.

Contractual warranty

Jamstvo	18 months
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