



### Main

Range of product	TeSys K
Range	TeSys
Product or component type	Contactor
Product name	TeSys K
Device short name	LC1K
Contactor application	Motor control

### Complementary

Utilisation category	AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	$\leq 690$ V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	6 A at $\leq 440$ V AC AC-3 for power circuit
Control circuit type	AC 50/60 Hz
Control circuit voltage	110 V AC 50/60 Hz
Motor power kW	2.2 kW at 380...415 V AC 50/60 Hz 1.5 kW at 220...230 V AC 50/60 Hz 3 kW at 500...600 V AC 50/60 Hz 3 kW at 480 V AC 50/60 Hz 3 kW at 660...690 V AC 50/60 Hz 3 kW at 440 V AC 50/60 Hz
Auxiliary contact composition	1 NC
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	10 A at $\leq 50$ °C for signalling circuit 20 A at $\leq 50$ °C for power circuit
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 110 A AC for power circuit conforming to IEC 60947

110 A AC for power circuit conforming to NF C 63-110

Rated breaking capacity	110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947
[Icw] rated short-time withstand current	20 A $\leq 50$ °C $\geq 15$ s power circuit 90 A 500 ms signalling circuit 40 A $\leq 50$ °C 3 min power circuit 60 A $\leq 50$ °C 30 s power circuit 80 A $\leq 50$ °C 10 s power circuit 90 A $\leq 50$ °C 1 s power circuit 80 A 1 s signalling circuit 45 A $\leq 50$ °C 1 min power circuit 110 A 100 ms signalling circuit 85 A $\leq 50$ °C 5 s power circuit
Associated fuse rating	25 A gG at $\leq 440$ V for power circuit 10 A gG for signalling circuit conforming to VDE 0660 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947
Average impedance	3 mOhm at 50 Hz - lth 20 A for power circuit
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for signalling circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to CSA C22.2 No 14 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for power circuit conforming to UL 508 600 V for signalling circuit conforming to UL 508
Insulation resistance	$> 10$ MOhm for signalling circuit
Inrush power in VA	30 VA at 20 °C
Hold-in power consumption in VA	4.5 VA at 20 °C
Heat dissipation	1.3 W
Control circuit voltage limits	0.2...0.75 $U_c$ at $\leq 50$ °C drop-out 0.8...1.15 $U_c$ at $\leq 50$ °C operational
Connections - terminals	Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end
Operating rate	3600 cyc/h
Auxiliary contacts type	Type instantaneous (1 NC)
Signalling circuit frequency	$\leq 400$ Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Rail Plate
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat $\varnothing 6$ mm
Operating time	10...20 ms coil energisation and NO closing 10...20 ms coil de-energisation and NO opening
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Non overlap distance	0.5 mm
Mechanical durability	10 Mcycles
Electrical durability	1.3 Mcycles 6 A AC-3 at $U_e \leq 440$ V
Mechanical robustness	Shocks contactor opened, on X axis 6 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 opened 2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 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 opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27

Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.18 kg
Compatibility code	LC1K

## Environment

Standards	IEC 60947 NF C 63-110 VDE 0660 BS 5424
Product certifications	CSA UL
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 derating in temperature
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0640 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">End of life manual</a>
Product end of life instructions	Available

## Contractual warranty

Warranty period	18 months
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