



Main

Range of product	TeSys K
Range	TeSys
Product name	TeSys K
Device short name	LC1K
Contacteur application	Motor control Resistive load

Complementary

Utilisation category	AC-4 AC-3 AC-1
Pole contact composition	3 NO
[Ie] rated operational current	20 A (≤ 50 °C) at ≤ 440 V AC AC-1 for power circuit 16 A (≤ 70 °C) at 690 V AC AC-1 for power circuit 12 A at ≤ 440 V AC AC-3 for power circuit
Control circuit type	AC 50/60 Hz
Control circuit voltage	24 V AC 50/60 Hz
Motor power kW	4 kW at 500...600 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz 3 kW at 220...230 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz
Auxiliary contact composition	1 NC
Overvoltage category	III
[Ith] conventional free air thermal current	10 A at ≤ 50 °C for signalling circuit 20 A at ≤ 50 °C for power circuit
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110
Rated breaking capacity	80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947

70 A at 660...690 V conforming to IEC 60947

Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947 25 A gG at <= 440 V for power circuit 10 A gG for signalling circuit conforming to VDE 0660 25 A aM for power circuit
Average impedance	3 mOhm at 50 Hz - lth 20 A for power circuit
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	0.8...1.15 Uc at <= 50 °C operational 0.2...0.75 Uc at <= 50 °C drop-out
Operating rate	3600 cyc/h
Auxiliary contacts type	Type instantaneous (1 NC)
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
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 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 opened, on Y axis 10 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
Compatibility code	LC1K

Environment

Product certifications	UL CSA
Protective treatment	TC conforming to DIN 50016 TC conforming to IEC 60068
Operating altitude	2000 m without derating in temperature
Flame retardance	Requirement 2 conforming to NF F 16-101 V1 conforming to UL 94 Requirement 2 conforming to NF F 16-102

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0633 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of life manual
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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