





## Main

Commercial Status	Commercialised
Range of product	TeSys K
Product or component type	Contacteur
Device short name	LC1K
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	12 A at <= 440 V AC AC-3 for power circuit 16 A (<= 158 °F (70 °C)) at 690 V AC AC-1 for power circuit 20 A (<= 122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit
Motor power kW	5.5 kW at 440 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 3 kW at 220...230 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 4 kW at 500...600 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
Control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	10 A at <= 122 °F (50 °C) for signalling circuit 20 A at <= 122 °F (50 °C) for power circuit
Irms rated making capacity	144 A AC for power circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 110 A AC for signalling circuit conforming to IEC 60947
Rated breaking capacity	70 A at 660...690 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947
[Icw] rated short-time withstand current	25 A <= 122 °F (50 °C) >= 15 s power circuit 50 A <= 122 °F (50 °C) 3 min power circuit 55 A <= 122 °F (50 °C) 1 min power circuit 75 A <= 122 °F (50 °C) 30 s power circuit 100 A <= 122 °F (50 °C) 10 s power circuit 105 A <= 122 °F (50 °C) 5 s power circuit 115 A <= 122 °F (50 °C) 1 s power circuit 110 A 100 ms signalling circuit 90 A 500 ms signalling circuit 80 A 1 s signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to VDE 0660 10 A gG for signalling circuit conforming to IEC 60947 25 A aM for power circuit 25 A gG at <= 440 V for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit

[Ui] rated insulation voltage	600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508
Electrical durability	1.3 Mcycles 12 A AC-3 at $U_e \leq 440$ V 0.3 Mcycles 20 A AC-1 at $U_e \leq 440$ V
Mounting support	Plate Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
Connections - terminals	Screw clamp terminals 2 cable(s) 0 in <sup>2</sup> (1.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.01 in <sup>2</sup> (4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.01 in <sup>2</sup> (4 mm <sup>2</sup> ) - cable stiffness: solid
Tightening torque	11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2
Operating time	10...20 ms coil energisation and NO closing 10...20 ms coil de-energisation and NO opening
Safety reliability level	B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	10 Mcycles
Operating rate	3600 cyc/h

## Complementary

Control circuit voltage limits	0.2...0.75 $U_c$ at $\leq 122$ °F (50 °C) drop-out 0.8...1.15 $U_c$ at $\leq 122$ °F (50 °C) operational
Inrush power in VA	30 VA at 68 °F (20 °C)
Hold-in power consumption in VA	4.5 VA at 68 °F (20 °C)
Heat dissipation	1.3 W
Auxiliary contacts type	Type instantaneous (1 NO)
Signalling circuit frequency	$\leq 400$ Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non overlap distance	0.02 in (0.5 mm)
Insulation resistance	> 10 MOhm for signalling circuit

## Environment

IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to DIN 50016 TC conforming to IEC 60068
Ambient air temperature for operation	-13...122 °F (-25...50 °C)
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	6561.68 ft (2000 m) without derating in temperature
Flame retardance	Requirement 2 conforming to NF F 16-102 Requirement 2 conforming to NF F 16-101 V1 conforming to UL 94

Mechanical robustness	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 opened, on Z axis 10 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 X axis 6 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 closed, on Y 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
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Product weight	0.4 lb(US) (0.18 kg)

### Ordering and shipping details

Category	22326 - CTR,K-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	00785901304050
Nbr. of units in pkg.	1
Package weight(Lbs)	0.39
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	FR

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0633 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Need no specific recycling operations

### Contractual warranty

Period	18 months
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