

Product data sheet

Specifications



TeSys K contactor , 3P , AC-3 <= 440 V 6 A , 1 NO aux. , 24 V AC coil

LC1K06103B72

⚠ Discontinued on: Aug 30, 2023

⚠ End-of-service on: Dec 31, 2023

⚠ Discontinued

Main

Range of product	TeSys K
Range	TeSys
Product name	TeSys K
Device application	Control
Product or component type	Contacteur
Device short name	LC1K
Utilisation category	AC-3 AC-4
Coil technology	Built-in bidirectional peak limiting diode suppressor
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	6 A at <= 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	Instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Non overlap distance	0.02 in (0.5 mm)

Complementary

Contacteur application	Motor control
Auxiliary contact composition	1 NO
Control circuit voltage limits	Operational: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: 0.2...0.75 Uc (at <122 °F (50 °C))
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Connections - terminals	spring terminals 1 0.001...0.002 in² (0.75...1.5 mm²)solid spring terminals 1 0.001...0.002 in² (0.75...1.5 mm²)flexible without cable end
Electrical durability	1.3 Mcycles 6 A AC-3 <= 440 V
Mechanical robustness	Shocks contacteur closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contacteur closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contacteur closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contacteur opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contacteur opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contacteur opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contacteur closed4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contacteur opened2 Gn, 5...300 Hz IEC 60068-2-6

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

Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
IP degree of protection	IP2X VDE 0106
Protective treatment	TC IEC 60068 TC DIN 50016
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting support	Plate Rail
Product certifications	CB Scheme CCC UL CSA EAC CE UKCA
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	2000 m without derating
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz Signalling circuit ≤ 690 V AC 50/60 Hz
[Ith] conventional free air thermal current	20 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms 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 110 A AC for signalling 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
Associated fuse rating	25 A gG at ≤ 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660
Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit
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))
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
Mechanical durability	10 Mcycles
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit

Insulation resistance	> 10 MOhm for signalling circuit
Height	2.3 in (58 mm)
Width	1.8 in (45 mm)
Depth	2.2 in (57 mm)
Net weight	0.40 lb(US) (0.18 kg)
Compatibility code	LC1K

Environment

Motor power kW	1.5 kW 220...230 V AC 50/60 Hz 2.2 kW 380...415 V AC 50/60 Hz 3 kW 440 V AC 50/60 Hz 3 kW 480 V AC 50/60 Hz 3 kW 500...600 V AC 50/60 Hz 3 kW 660...690 V AC 50/60 Hz
[Ic _w] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 A 122 °F (50 °C) - >= 15 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit
Heat dissipation	1.3 W
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No