Product datasheet

Specifications

reversing contactor TeSys LC2-K - 3 poles - AC-3 440V 9 A - coil 24 V AC

LC2K0901B7TQ

Discontinued on: 1 Nov 2020

Discontinued

Main

Range of product	TeSys K
Product or component type	Reversing contactor
Device short name	LC2K
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1
Control circuit type	AC
Coil type	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	Power circuit: 20 A AC AC-1 (at <50 °C) Power circuit: 9 A AC AC-3
Motor power kW	2.2 kW at 220...230 V AC 50/60 Hz 4 kW at 380...415 V AC 50/60 Hz 4 kW at 440/500 V AC 50/60 Hz 4 kW at 660/690 V AC 50/60 Hz
Motor power hp	2 hp at 200/208 V AC 60 Hz conforming to CSA 2 hp at 200/208 V AC 60 Hz conforming to UL 3 hp at 230/240 V AC 60 Hz conforming to CSA 3 hp at 230/240 V AC 60 Hz conforming to UL 5 hp at 460/480 V AC 60 Hz conforming to CSA 5 hp at 460/480 V AC 60 Hz conforming to UL 5 hp at 575/600 V AC 60 Hz conforming to CSA 5 hp at 575/600 V AC 60 Hz conforming to UL
Auxiliary contact composition	1 NC
[Uc] control circuit voltage	24 V AC 50/60 Hz

Connections - terminals	Power circuit: screw clamp terminal 1 x 1.5 mm²solid Power circuit: screw clamp terminal 2 x 4 mm²solid Power circuit: screw clamp terminal 1 x 0.75 mm²flexible without cable end Power circuit: screw clamp terminal 2 x 4 mm²flexible without cable end Power circuit: screw clamp terminal 1 x 0.34 mm²flexible with cable end Power circuit: screw clamp terminal 1 x 1.5 mm²flexible with cable end Power circuit: screw clamp terminal 1 x 2.5 mm²flexible with cable end Control circuit: screw clamp terminal 1 x 1.5 mm²solid Control circuit: screw clamp terminal 2 x 4 mm²solid Control circuit: screw clamp terminal 1 x 0.75 mm²flexible without cable end Control circuit: screw clamp terminal 2 x 4 mm²flexible without cable end Control circuit: screw clamp terminal 1 x 0.34 mm²flexible with cable end Control circuit: screw clamp terminal 1 x 1.5 mm²flexible with cable end Control circuit: screw clamp terminal 1 x 2.5 mm²flexible with cable end Power circuit: spring terminal 1 x 0.75 mm²solid Power circuit: spring terminal 1 x 1.5 mm²solid Power circuit: spring terminal 1 x 0.75 mm²flexible without cable end Power circuit: spring terminal 1 x 1.5 mm²flexible without cable end Control circuit: spring terminal 1 x 0.75 mm²solid Control circuit: spring terminal 1 x 1.5 mm²solid Control circuit: spring terminal 1 x 0.75 mm²flexible without cable end Control circuit: spring terminal 1 x 1.5 mm²flexible without cable end Power circuit: Faston connectors 2 x clip - width: 2.8 mm Power circuit: Faston connectors 1 x clip - width: 6.35 mm Control circuit: Faston connectors 2 x clip - width: 2.8 mm Control circuit: Faston connectors 1 x clip - width: 6.35 mm
Quantity per set	Set of 10

Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: >= 0.20 Uc at 50/60 Hz (at <50 °C) Operational: 0.8...1.15 Uc at 50/60 Hz (at <50 °C)
[Ui] rated insulation voltage	Control circuit: 690 V conforming to BS 5424 Control circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to BS 5424 Power circuit: 690 V conforming to IEC 60947 Power circuit: 690 V conforming to NF C 20-040 Control circuit: 750 V conforming to VDE 0110 group C Power circuit: 750 V conforming to VDE 0110 group C Control circuit: 600 V conforming to CSA C22.2 No 14 Power circuit: 600 V UL 508 certified conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Mounting support	Plate Rail
Flame retardance	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94
Tightening torque	Power circuit: - cable 0.34…1.5 mm² - with screwdriver Philips No 2 flat screw head M6 Power circuit: - cable 0.34…2.5 mm² - with screwdriver Philips No 2 flat screw head M6 Power circuit: - cable 0.75…4 mm² - with screwdriver Philips No 2 flat screw head M6 Power circuit: - cable 1.5…4 mm² - with screwdriver Philips No 2 flat screw head M6
[Ue] rated operational voltage	Power circuit: <= 690 V AC <= 400 Hz
[Ith] conventional free air thermal current	10 A (at 50 °C) for control circuit 20 A (at 50 °C) for power circuit
Irms rated making capacity	110 A at 690 V AC for control circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to IEC 60947 110 A at 690 V AC for power circuit conforming to NF C 63-110

Rated breaking capacity	110 A at 220...230 V for power circuit conforming to IEC 60947 110 A at 220...230 V for power circuit conforming to NF C 63-110 110 A at 380...400 V for power circuit conforming to IEC 60947 110 A at 380...400 V for power circuit conforming to NF C 63-110 110 A at 415 V for power circuit conforming to IEC 60947 110 A at 415 V for power circuit conforming to NF C 63-110 110 A at 440 V for power circuit conforming to IEC 60947 110 A at 440 V for power circuit conforming to NF C 63-110 70 A at 660...690 V for power circuit conforming to IEC 60947 70 A at 660...690 V for power circuit conforming to NF C 63-110 80 A at 500 V for power circuit conforming to IEC 60947 80 A at 500 V for power circuit conforming to NF C 63-110
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at <= 440 V for power circuit
Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit
Inrush power in VA	30 VA (at 20 °C)
Hold-in power consumption in VA	4.5 VA 50/60 Hz (at 20 °C)
Operating time	10...20 ms coil de-energisation and NO opening 15...25 ms coil de-energisation and NC opening 5...15 ms coil energisation and NC opening 10...20 ms coil energisation and NO closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	5000000 cycles
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Insulation resistance	> 10 MOhm for control circuit
Height	58 mm
Width	90 mm
Depth	57 mm
Net weight	0.39 kg

Environment

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
Product certifications	CB Scheme CCC UL CSA EAC CE UKCA
IP degree of protection	IP2X conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068
Ambient air temperature for operation	-25…50 °C
Ambient air temperature for storage	-50…80 °C
Operating altitude	2000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1

Shock resistance	10 gn contactor closed 6 gn contactor opened
Vibration resistance	2 gn 5…300 Hz contactor opened 4 gn 5…300 Hz contactor closed
Heat dissipation	1.3 W at 50/60 Hz for control circuit

Packing Units

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

Contractual warranty

Warranty (in months)	18

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

Use Again

Repack and remanufacture

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins