

# LC2K1201B7

reversing contactor TeSys LC2-K - 3 poles -  
AC-3 440V 12 A - coil 24 V AC



## Main

Range of product	TeSys K
Product or component type	Reversing contactor
Device short name	LC2K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	12 A AC network AC-3 for power circuit 20 A (<= 50 °C) AC network AC-1 for power circuit
Motor power kW	3 kW at 220...230 V AC 50/60 Hz 4 kW at > 440 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz
Auxiliary contact composition	1 NC
Control circuit voltage	24 V AC 50/60 Hz
Connections - terminals	Screwclamp terminal power circuit: 1...2 cable 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screwclamp terminal power circuit: 1...2 cable 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screwclamp terminal power circuit: 1 cable 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screwclamp terminal power circuit: 1 cable 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end

## Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Interlocking type	Mechanical
Control circuit voltage limits	>= 0.20 Uc at <= 50 °C drop-out 50/60 Hz 0.8...1.15 Uc at <= 50 °C operational 50/60 Hz
[Ui] rated insulation voltage	600 V conforming to CSA C22-2 No 14 for control circuit 600 V certifications UL 508 conforming to CSA C22-2 No 14 for power circuit 690 V conforming to BS 5424 for control circuit 690 V conforming to IEC 60947 for control circuit 690 V conforming to BS 5424 for power circuit 690 V conforming to IEC 60947 for power circuit 690 V conforming to NF C 20-040 for power circuit 750 V conforming to VDE 0110 group C for control circuit 750 V conforming to VDE 0110 group C for power circuit
[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

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Tightening torque	0.8...1.3 N.m power circuit: - on screwclamp terminal - cable 0.34...1.5 mm <sup>2</sup> - with screwdriver Philips No 2 M6 flat 0.8...1.3 N.m power circuit: - on screwclamp terminal - cable 0.34...2.5 mm <sup>2</sup> - with screwdriver Philips No 2 M6 flat 0.8...1.3 N.m power circuit: - on screwclamp terminal - cable 0.75...4 mm <sup>2</sup> - with screwdriver Philips No 2 M6 flat 0.8...1.3 N.m power circuit: - on screwclamp terminal - cable 1.5...4 mm <sup>2</sup> - with screwdriver Philips No 2 M6 flat
[Ue] rated operational voltage	<= 690 V AC <= 400 Hz for power circuit
[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 144 A at 690 V AC for power circuit conforming to IEC 60947 144 A at 690 V AC for power circuit conforming to NF C 63-110
Rated breaking capacity	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 at 50 Hz - Ith 20 A for power circuit
Inrush power in VA	30 VA at 20 °C
Hold-in power consumption in VA	4.5 VA at 20 °C 50/60 Hz
Operating time	10...20 ms between energisation of coil and closing of NO contact 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
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
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
Terminals description ISO n°1	(21-22)NC (A1-A2)CO B
Terminals description ISO n°2	(21-22)NC (A1-A2)CO B
Height	58 mm
Width	90 mm
Depth	57 mm
Product weight	0.39 kg

## Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA GOST UL
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 in temperature
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor closed 6 gn contactor opened

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

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