Product data sheet Characteristics

LC2K0901M7

TeSys K reversing contactor - 3P(3 NO) -AC-3-<= 440 V 9 A - 220...230 VAC coil





Main Range	TeSys
Product name	TeSys K
Product or component	Reversing contactor
Doving short name	LC2K
Device short name	
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Power 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
[le] rated operational current	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit 20 A (<= 50 °C) at <= 440 V AC AC-1 for power cir- cuit
Motor power kW	9 A at <= 440 V AC AC-3 for power circuit 4 kW at 660690 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz 4 kW at 440 V AC 50/60 Hz 4 kW at 380415 V AC 50/60 Hz 2.2 kW at 220230 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
Control circuit voltage	220230 V AC 50/60 Hz
Auxiliary contact composition	1 NC
[Uimp] rated impulse withstand voltage	8 kV
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 110 A AC for power circuit conforming to IEC 60947 110 A AC for power circuit conforming to NF C 63-110
Rated breaking capacity	70 A at 660690 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947
[lcw] rated short-time withstand current	20 A <= 50 °C >= 15 s power circuit 110 A 100 ms signalling circuit 90 A 500 ms signalling circuit 80 A 1 s signalling circuit 40 A <= 50 °C 3 min power circuit 45 A <= 50 °C 1 min power circuit 60 A <= 50 °C 30 s power circuit 80 A <= 50 °C 10 s power circuit 85 A <= 50 °C 5 s power circuit 90 A <= 50 °C 1 s power 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
Avorago impodence	25 A gG at <= 440 V for power circuit 3 mOhm at 50 Hz - Ith 20 A for power circuit
Average impedance	o monin at our 12 - Itil 20 A loi 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 9 A AC-3 at Ue <= 440 V 0.18 Mcycles 20 A AC-1 at Ue <= 440 V
Interlocking type	Mechanical
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) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing
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
Mechanical durability	5 Mcycles
Operating rate	3600 cyc/h

Complementary

0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational
30 VA at 20 °C
4.5 VA at 20 °C
1.3 W
Type instantaneous 1 NC
<= 400 Hz
5 mA for signalling circuit
17 V for signalling circuit
0.5 mm
> 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	-2550 °C
Ambient air temperature for storage	-5080 °C
Operating altitude	2000 m without derating 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, 5300 Hz IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5300 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	58 mm
Width	90 mm
Depth	57 mm
Product weight	0.39 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0706 - Schneider Electric declaration of conformity
Product environmental profile	Available 🔁 Download Product Environmental
Product end of life instructions	Need no specific recycling operations

