Product data sheet Characteristics

LC2K0901G7 TeSys K reversing contactor - 3P - AC-3 <= 440 V 9 A - 1 NC - 120 V AC coil





Main

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Main		
Range	TeSys	
Product name	TeSys K	
Product or component type	Reversing contactor	
Device short name	LC2K	
Device application	Control	
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 power circuit <= 690 V AC 50/60 Hz for signalling circuit	
[le] rated operational current	9 A at <= 440 V AC AC-3 for power circuit 20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit 16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	
Motor power kW	4 kW at 380415 V AC 50/60 Hz 4 kW at 440 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz 2.2 kW at 220230 V AC 50/60 Hz	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	120 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	20 A at <= 50 °C for power circuit 10 A at <= 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 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	
[Icw] rated short-time withstand current	current $20 \text{ A} <= 50 ^{\circ}\text{C} >= 15 \text{ min power circuit}$ $90 \text{ A} <= 50 ^{\circ}\text{C} \text{ 1 s power circuit}$ $85 \text{ A} <= 50 ^{\circ}\text{C} \text{ 5 s power circuit}$ $80 \text{ A} <= 50 ^{\circ}\text{C} \text{ 10 s power circuit}$ $60 \text{ A} <= 50 ^{\circ}\text{C} \text{ 30 s power circuit}$ $45 \text{ A} <= 50 ^{\circ}\text{C} \text{ 1 min power circuit}$ $40 \text{ A} <= 50 ^{\circ}\text{C} \text{ 3 min power circuit}$ $40 \text{ A} <= 50 ^{\circ}\text{C} \text{ 3 min power circuit}$ $80 \text{ A} \text{ 1 s signalling circuit}$ $90 \text{ A} \text{ 500 ms signalling circuit}$ $110 \text{ A} \text{ 100 ms signalling circuit}$	
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 at 50 Hz - Ith 20 A for power circuit	
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508	
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 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 1 cable(s) 1.54 mm ² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.754 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm ² - cable stiffness: flexible - with cable end	
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm	
Operating time	1020 ms coil de-energisation and NO opening 1020 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	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

Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non overlap distance	0.5 mm
Insulation resistance	> 10 MOhm for signalling circuit

Environment

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IP degree of protection	IP20 conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
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	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Mechanical robustness	Shocks contactor closed, on X axis 10 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 Z axis 15 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 opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6
Height	58 mm
Width	90 mm
Depth	57 mm
Product weight	0.39 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0706 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Product Environmental Profile	
Product end of life instructions	Available	
	End of Life Information	

Contractual warranty	
Warranty period	18 months