Product datasheet Characteristics

LC1K0901F7 TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 110 V AC coil



Main

Range of product	TeSys K	
Range	TeSys	
Product name	TeSys K	
Device short name	LC1K	
Contactor application	Motor control Resistive load	

Complementary

A2	:
	5
TeSys K	
TeSys	
TeSys K	
LC1K	
Motor control Resistive load	
AC-4 AC-1	
3P	
3 NO	<u>`</u>
690 V AC 50/60 Hz for power circuit <= 690 V AC 50/60 Hz for signalling 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 9 A at <= 440 V AC AC-3 for power circuit	:
AC 50/60 Hz	
110 V AC 50/60 Hz	
4 kW at 480 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz 2.2 kW at 220230 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 440 V AC 50/60 Hz 4 kW at 380415 V AC 50/60 Hz	
1 NC	
8 kV	
III	
10 A at <= 50 °C for signalling circuit 20 A at <= 50 °C for power circuit	
	TeSysTeSys KLC1KMotor control Resistive loadAC-3 AC-4AC-13P3 NO690 V AC 50/60 Hz for power circuit <= 690 V AC 50/60 Hz 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	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
[Icw] rated short-time withstand current	90 A <= 50 °C 1 s power circuit 80 A 1 s signalling circuit 45 A <= 50 °C 1 min power circuit 40 A <= 50 °C 3 min power circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit 60 A <= 50 °C 30 s power circuit 20 A <= 50 °C >= 15 s power circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit
Associated fuse rating	25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 25 A gG at <= 440 V for power circuit 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 power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-4-1
Insulation resistance	> 10 MOhm for signalling circuit
Inrush power in VA	30 VA at 20 °C
Hold-in power consumption in VA	4.5 VA at 20 °C
Heat dissipation	1.3 W
Control circuit voltage limits	0.81.15 Uc at <= 50 °C operational 0.20.75 Uc at <= 50 °C drop-out
Connections - terminals	Screw clamp terminals 1 cable(s) 0.342.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 1 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) 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) 0.754 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
Operating rate	3600 cyc/h
Auxiliary contacts type	Type instantaneous (1 NC)
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Plate Rail
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	1020 ms coil energisation and NO closing 1020 ms coil de-energisation and NO 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
Non overlap distance	0.5 mm
Mechanical durability	10 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V
Mechanical robustness	Shocks contactor opened, on Z axis 10 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 X 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 Y axis 15 Gn for 11 ms IEC 60068-2-27



Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6

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Height	58 mm	
Width	45 mm	
Depth	57 mm	
Product weight	0.18 kg	
Compatibility code	LC1K	

Environment

106
16
68
temperature
to NF F 16-102
to NF F 16-101

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0640 - 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	
	🛃 End of life manual	
Product end of life instructions	Available	

Contractual warranty

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Warranty period	18 months	