Product data sheet Characteristics

LC1K0901F7

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NC aux. - 110 V AC coil





Main

Range	TeSys	4
Product or component type	Contactor	ž
Product name	TeSys K	9
Device short name	LC1K	
Device application	Control	
Contactor application	Motor control Resistive load	ia r

Complementary

Complementary		<u>.</u>
Utilisation category	AC-1	
	AC-3	lete e
	AC-4	force
Poles description	3P	used for determining
Power pole contact composition	3 NO	not to
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit	
	<= 690 V AC 50/60 Hz for signalling circuit	<u>o</u> .
[le] rated operational current	9 A at <= 440 V AC AC-3 for power circuit	and ————————————————————————————————————
	20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit	ф Э
	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit	substitute for
Control circuit type	AC 50/60 Hz	ns sch
[Uc] control circuit voltage	110 V AC 50/60 Hz	is not intended as
Motor power kW	2.2 kW at 400 V AC 50/60 Hz AC-4	
	2.2 kW at 220230 V AC 50/60 Hz AC-3	<u> </u>
	4 kW at 380415 V AC 50/60 Hz AC-3	Ò
	4 kW at 440 V AC 50/60 Hz AC-3	
	4 kW at 480 V AC 50/60 Hz AC-3	ta
	4 kW at 500600 V AC 50/60 Hz AC-3	nen
	4 kW at 660690 V AC 50/60 Hz AC-3	documentation
Auxiliary contact composition	1 NC	This d
[Uimp] rated impulse withstand voltage	8 kV	⊢
Overvoltage category	III	claimer:

[lth] 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	20 A <= 50 °C >= 15 min power circuit 90 A <= 50 °C 1 s power circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit 60 A <= 50 °C 30 s power circuit 45 A <= 50 °C 1 min power circuit 40 A <= 50 °C 3 min power circuit 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 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	
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	0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm² - 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 Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 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	
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 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	45 mm	
Depth	57 mm	
Product weight	0.18 kg	

Environment

- IIII OI III III II	
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
IP degree of protection	IP2x 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
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Offer Sustainability

Green Premium product
Compliant - since 0640 - Schneider Electric declaration of conformity
Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold
Reference not containing SVHC above the threshold
Available
Product Environmental Profile
Available
End of Life Information

Contractual warranty

Contraction warranty		
Warranty period	18 months	