

TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 400...415 V AC coil

LC1K0610N7

Main

Range	TeSys
Product or component type	Contactor
Device short name	LC1K
Device application	Control
Contactor application	Motor control

Complementary

Utilisation category	AC-3
	AC-3e
	AC-4
	7.0 1
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC <= 400 Hz
	Signalling circuit: <= 690 V AC <= 400 Hz
[le] rated operational current	6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[10] ratou operational ourrent	6 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
	6 A (at <00°C) at <= 440 V AC AC-Se for power circuit
Control circuit type	AC at 50/60 Hz
file) control cincuit valtana	
[Uc] control circuit voltage	400415 V AC 50/60 Hz
Motor power kW	1.5 kW at 220230 V AC 50/60 Hz AC-3
-	2.2 kW at 380415 V AC 50/60 Hz AC-3
	3 kW at 440/690 V AC 50/60 Hz AC-3
	1.5 kW at 220230 V AC 50/60 Hz AC-3e
	2.2 kW at 380415 V AC 50/60 Hz AC-3e
	3 kW at 440/690 V AC 50/60 Hz AC-3e
	1.5 kW at 220230 V AC 50/60 Hz AC-4
	2.2 kW at 380415 V AC 50/60 Hz AC-4
	3 kW at 440/690 V AC 50/60 Hz AC-4
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand	8 kV
voltage	
Overvoltage category	III
[Ith] conventional free air thermal	20 A (at 60 °C) for power circuit
current	10 A (at 50 °C) for signalling circuit
	10 / (at 00 °C) for digitaling on out
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947
0 , ,	110 A AC for signalling circuit conforming to IEC 60947
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Rated breaking capacity	110 A at 220230 V conforming to IEC 60947
- · ·	110 A at 380400 V conforming to IEC 60947
	110 A at 415 V conforming to IEC 60947
	110 A at 440 V conforming to IEC 60947
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	80 A at 500 V conforming to IEC 60947

70 A at 660...690 V conforming to IEC 60947

[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit
Carrone	85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit
	60 A 50 °C - 30 s for power circuit
	45 A 50 °C - 1 min for power circuit
	40 A 50 °C - 3 min for power circuit
	20 A 50 °C - >= 15 min for power circuit
	80 A - 1 s for signalling circuit
	90 A - 500 ms for signalling circuit
	110 A - 100 ms for 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 - Ith 20 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit: 600 V conforming to UL 508
	Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-5-1
	Signalling circuit: 600 V conforming to UL 508
	Power circuit: 600 V conforming to CSA C22.2 No 14
	Signalling circuit: 600 V conforming to CSA C22.2 No 14
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	Operational: 0.81.15 Uc (at <50 °C) Drop-out: >= 0.20 Uc (at <50 °C)
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid
	Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end
	Screw clamp terminals 2 cable(s) 1.54 mm²solid
	Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end
	Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
Maximum operating rate	3600 cyc/h
Auxiliary contacts type	type instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Rail Plate
Tightening torque	0.81.3 N.m - on screw clamp terminals Philips No 2
	0.81.3 N.m - on screw clamp terminals flat Ø 6 mm
	0.81.3 N.m - on screw clamp terminals pozidriv No 2
<u> </u>	
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	1.3 Mcycles 6 A AC-3 at Ue <= 440 V
-	1.3 Mcycles 6 A AC-3e at Ue <= 440 V 0.05 Mcycles 36 A AC-4 at Ue <= 440 V
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Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6
Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 58 mm
45 mm
57 mm
0.18 kg

Environment

Standards	EN/IEC 60947-4-1	
	GB/T 14048.4	
	UL 60947-4-1	
	CSA C22.2 No 60947-4-1	
	JIS C8201-4-1	
	IEC 60335-1:Clause 30.2	
	IEC 60335-2-40:Annex JJ	
	UL 60335-2-40:Annex JJ	
Product certifications	CB Scheme	
	CCC	
	UL	
	CSA	
	EAC	
	CE	
	UKCA	
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 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	

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.5 cm
Package 1 Width	6.2 cm
Package 1 Length	4.8 cm
Package 1 Weight	177.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.221 kg

Contractual warranty

Warranty

18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

How this information helps you >

⊘ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	51
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

