

Product data sheet

Specifications



TeSys K contactor , 3P , AC-3 <= 440 V 12 A , 1 NO aux. , 220...230 V AC coil

LC1K12103M7

⚠ Discontinued on: Oct 5, 2021

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Main

Range of product	TeSys K
Range	TeSys
Product or component type	Contacteur
Device short name	LC1K
Contacteur application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-4 AC-3e
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	16 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 12 A at <= 440 V AC AC-3e for power circuit
Auxiliary contact composition	1 NO

Complementary

Control circuit type	AC 50/60 Hz
Motor power kW	3 kW 220...230 V AC 50/60 Hz AC-3 5.5 kW 380...415 V AC 50/60 Hz AC-3 5.5 kW 440 V AC 50/60 Hz AC-3 4 kW 690 V AC 50/60 Hz AC-3 3 kW 220...230 V AC 50/60 Hz AC-3e 5.5 kW 380...415 V AC 50/60 Hz AC-3e 5.5 kW 440 V AC 50/60 Hz AC-3e 4 kW 690 V AC 50/60 Hz AC-3e 2.2 kW 400 V AC 50/60 Hz AC-4
Auxiliary contacts type	Instantaneous 1 NO
[Uc] control circuit voltage	220...230 V AC 50/60 Hz
Control circuit voltage limits	Operational: 0.85...1.1 U _c (at <122 °F (50 °C)) Drop-out: 0.2...0.75 U _c (at <122 °F (50 °C))
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III

Mounting support	Rail Plate
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
IP degree of protection	IP2X VDE 0106
Protective treatment	TC IEC 60068 TC DIN 50016
Flame retardance	V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102
Connections - terminals	spring terminals 1 0.001...0.002 in ² (0.75...1.5 mm ²)solid spring terminals 1 0.001...0.002 in ² (0.75...1.5 mm ²)flexible without cable end
[Ue] rated operational voltage	Power circuit 690 V AC 50/60 Hz Signalling circuit ≤ 690 V AC 50/60 Hz
[Ith] conventional free air thermal current	16 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
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 16 A 50 Hz for power circuit
Inrush power in VA	30 VA (at 68 °F (20 °C))
Hold-in power consumption in VA	4.5 VA (at 68 °F (20 °C))
Heat dissipation	1.3 W
Operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	10 Mcycles
Maximum operating rate	3600 cyc/h
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
Height	2.3 in (58 mm)
Width	1.8 in (45 mm)
Depth	2.2 in (57 mm)
Net weight	0.40 lb(US) (0.18 kg)

Environment

Product certifications	CB Scheme CCC UL CSA EAC CE UKCA
Ambient air temperature for storage	-58...176 °F (-50...80 °C)
Operating altitude	2000 m without derating

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.9 in (4.8 cm)
Package 1 Width	2.6 in (6.5 cm)
Package 1 Length	2.4 in (6.2 cm)
Package 1 Weight	6.5 oz (184 g)

Contractual warranty

Warranty (in months)	18
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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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Longer



Lifetime extension

[Repair](#)

[No](#)

Use Again



Repack and remanufacture

[WEEE Label](#)



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins