# Product data sheet

Specifications





### Contactor, TeSys K, 3P, AC-3, lt or eq to 440V 12 A, 1 NO aux., 200 to 208VAC coil

LC1K1210L7

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Price\*: 86.00 USD

#### Main

Range	TeSys
Product or Component Type	Contactor
Device short name	LC1K
Device Application	Control
contactor application	Motor control Resistive load

#### Complementary

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Utilisation category	AC-3
	AC-3e
	AC-1
	AC-4
	AC-4
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	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
	20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	200208 V AC 50/60 Hz
Motor power kW	3 kW 220230 V AC 50/60 Hz AC-3
	5.5 kW 380415 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 220230 V AC 50/60 Hz AC-3e
	5.5 kW 380415 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
	3 kW 220230 V AC 50/60 Hz AC-4
	5.5 kW 380415 V AC 50/60 Hz AC-4
	5.5 kW 440 V AC 50/60 Hz AC-4
	4 kW 690 V AC 50/60 Hz AC-4
auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal	20 A (at 140 °F (60 °C)) for power circuit
current	10 A (at 122 °F (50 °C)) for signalling circuit

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Irms rated making capacity	144 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 440 V conforming to IEC 60947
	80 A at 500 V conforming to IEC 60947
	70 A at 660690 V conforming to IEC 60947
[Icw] rated short-time withstand	115 A 122 °F (50 °C) - 1 s for power circuit
current	105 A 122 °F (50 °C) - 5 s for power circuit
	100 A 122 °F (50 °C) - 10 s for power circuit
	75 A 122 °F (50 °C) - 30 s for power circuit
	55 A 122 °F (50 °C) - 1 min for power circuit
	50 A 122 °F (50 °C) - 3 min for power circuit
	25 A 122 °F (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
isobolated face fating	25 A gO at <= 440 v foi 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 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
Insulation resistance	
	> 10 MOhm for signalling circuit
nrush 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
Control circuit voltage limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.20 Uc (at <122 °F (50 °C))
Connections - terminals	screw clamp terminals 1 0.0020.006 in <sup>2</sup> (1.54 mm <sup>2</sup> )solid
	screw clamp terminals 1 0.0010.006 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end
	screw clamp terminals 1 0.00050.004 in <sup>2</sup> (0.342.5 mm <sup>2</sup> )flexible with cable end
	screw clamp terminals 2 0.0020.006 in <sup>2</sup> (1.54 mm <sup>2</sup> )solid
	screw clamp terminals 2 0.0010.006 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end
	screw clamp terminals 2 0.00050.002 in <sup>2</sup> (0.341.5 mm <sup>2</sup> )flexible with cable end
Maximum operating rate	3600 cyc/h
Auxiliary contacts 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	Plate
meaning cappoir	Rail
Tightening torque	7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2
	7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm
	7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2
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 EN/ISO 13849-1
	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Non overlap distance	0.02 in (0.5 mm)
Mechanical durability	10 Mcycles
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Electrical durability	1.3 Mcycles 12 A AC-3 <= 440 V
	1.3 Mcycles 12 A AC-3e <= 440 V
	0.3 Mcycles 20 A AC-1 <= 690 V
	0.02 Mcycles 72 A AC-4 <= 440 V
Mechanical robustness	Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27
	Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27
	Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27
	Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27
	Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27
	Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27
	Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6
	Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6
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

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
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA
IP degree of protection	IP2X VDE 0106
Protective treatment	TC IEC 60068 TC DIN 50016
Ambient Air Temperature for Storage	-58176 °F (-5080 °C)
Operating altitude	6561.68 ft (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

## Ordering and shipping details

Category	US10I1222326
Discount Schedule	0112
GTIN	3389118049833
Returnability	No
Country of origin	FR

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.6 in (6.5 cm)
Package 1 Width	2.4 in (6.2 cm)
Package 1 Length	1.9 in (4.8 cm)
Package 1 Weight	6.4 oz (181.0 g)

### **Contractual warranty**

Warranty

18 months

4

### Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov