Product data sheet

Specifications





TeSys

Contactor

Contactor, TeSys K, 3P, AC-3, It or eq to 440V 12 A, 1 NO aux., 230VAC coil

LC1K1210P7

Product availability: Stock - Normally stocked in distribution

Price*: 86.00 USD

Main Range

Product or Component Type

Device short name	LC1K
Device Application	Control
contactor application	Resistive load Motor control
Complementary	
Utilisation category	AC-3
	AC-3e
	AC-1
	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	230 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.

10 A (at 122 °F (50 °C)) for signalling circuit

110 A At 40 V conforming to IEC 60947		
80 A at 500 V conforming to IEC 60947	Irms rated making capacity	
80 A at 500 V conforming to IEC 60947	Rated breaking capacity	110 A at 440 V conforming to IEC 60947
15 A 122 TF (50 °C) - 1 s for power circuit		
105 A 122 °F (60 °C) - 9 s for power circuit 106 A 122 °F (60 °C) - 10 s for power circuit 176 A 122 °F (60 °C) - 3 s for power circuit 176 A 122 °F (60 °C) - 3 min for power circuit 180 A - 1 s for signalling circuit 180 A - 100 ms for signalling circuit conforming to IEC 69947 180 A 96 for signalling circuit conforming to IEC 69947 180 A 96 for signalling circuit conforming to VEE 6980 Average impedance 3 mChm - Ith 20 A 50 Hz for power circuit 180 VEE 69947-4-1 Signalling circuit 600 V UL 508 Power circuit 600 V U		70 A at 660690 V conforming to IEC 60947
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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 in² (1.54 mm²)solid screw clamp terminals 1 0.0010.009 in² (0.754 mm²)flexible without cable end screw clamp terminals 1 0.00050.004 in² (0.342.5 mm²)flexible with cable end screw clamp terminals 2 0.0020.006 in² (1.54 mm²)solid screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end screw clamp terminals 0.0000 in² (0.754 mm²)flexible with cable end screw clamp terminals 0.0000 in² (0.754 mm²)flexible with cable end screw clamp terminals 0.0000 in² (0.754 mm²)flexible with cable end screw clamp terminals 0.00000000000000000000000000000000000	Hold-in power consumption in VA	4.5 VA (at 68 °F (20 °C))
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screw clamp terminals 2 0.0020.006 in² (1.54 mm²) solid screw clamp terminals 2 0.0010.006 in² (0.754 mm²) flexible without cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) flexible with cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²) 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 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)		
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screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)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 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)		
Auxiliary contacts type Instantaneous 1 NO <= 400 Hz Minimum switching current 5 mA for signalling circuit Minimum switching voltage 17 V for signalling circuit Mounting Support Plate 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)		
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 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)	Maximum operating rate	3600 cyc/h
Minimum switching current 5 mA for signalling circuit 17 V for signalling circuit Mounting Support Plate Rail 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 Departing 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 = 200000000 cycles contactor with mechanical load EN/ISO 13849-1 Non overlap distance 0.02 in (0.5 mm)	Auxiliary contacts type	Instantaneous 1 NO
Minimum switching voltage 17 V for signalling circuit Plate 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 Departing 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)	Signalling circuit frequency	<= 400 Hz
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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)	Minimum switching voltage	17 V for signalling circuit
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)	Mounting Support	
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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)		7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat \varnothing 6 mm
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)	Operating time	1020 ms coil de-energisation and NO opening
B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 Non overlap distance 0.02 in (0.5 mm)		
	Safety reliability level	•
Mechanical durability 10 Moveles	Non overlap distance	0.02 in (0.5 mm)
	Mechanical durability	10 Mayeles

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 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
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	US10l1222326
Discount Schedule	0112
GTIN	3389110856910
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	2.362 in (6.000 cm)

Package 1 Weight 2.559 in (6.500 cm) Package 1 Weight 6.342 oz (179.800 g) Unit Type of Package 2 S02 Number of Units in Package 2 50 Package 2 Height 5.906 in (15.000 cm) Package 2 Width 11.811 in (30.000 cm) Package 2 Length 15.748 in (40.000 cm) Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm) Package 3 Weight 343.520 lb(US) (155.818 kg)		
Unit Type of Package 2	Package 1 Length	2.559 in (6.500 cm)
Number of Units in Package 2 50 Package 2 Height 5.906 in (15.000 cm) Package 2 Width 11.811 in (30.000 cm) Package 2 Length 15.748 in (40.000 cm) Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Package 1 Weight	6.342 oz (179.800 g)
Package 2 Height 5.906 in (15.000 cm) Package 2 Width 11.811 in (30.000 cm) Package 2 Length 15.748 in (40.000 cm) Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Unit Type of Package 2	S02
Package 2 Width 11.811 in (30.000 cm) Package 2 Length 15.748 in (40.000 cm) Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Number of Units in Package 2	50
Package 2 Length 15.748 in (40.000 cm) Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Package 2 Height	5.906 in (15.000 cm)
Package 2 Weight 20.369 lb(US) (9.239 kg) Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Package 2 Width	11.811 in (30.000 cm)
Unit Type of Package 3 P06 Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Package 2 Length	15.748 in (40.000 cm)
Number of Units in Package 3 800 Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Package 2 Weight	20.369 lb(US) (9.239 kg)
Package 3 Height 29.528 in (75.000 cm) Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Unit Type of Package 3	P06
Package 3 Width 31.496 in (80.000 cm) Package 3 Length 23.622 in (60.000 cm)	Number of Units in Package 3	800
Package 3 Length 23.622 in (60.000 cm)	Package 3 Height	29.528 in (75.000 cm)
	Package 3 Width	31.496 in (80.000 cm)
Package 3 Weight 343.520 lb(US) (155.818 kg)	Package 3 Length	23.622 in (60.000 cm)
	Package 3 Weight	343.520 lb(US) (155.818 kg)

Contractual warranty

Warranty 18 months



Green PremiumTM **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-CO₂ 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 >







Sustainable Packaging Transparency RoHS/REACh

Resource performance



Sustainable Packaging

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation

Eu Rohs Directive

Compliant

EU RoHS Declaration

China Rohs Regulation

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

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