# Product data sheet

Specifications





## Contactor, IEC, TeSys K, 9A, 3 P, 5 HP at 480VAC, nonreversing, 1 NO auxilliary contact, 110VAC 50/60 Hz coil

LC1K0910F7

Product availability: Stock - Normally stocked in distribution facility

#### Price\*: 75.00 USD

#### Main

Range	TeSys
Product Or Component Type	Contactor
Device Short Name	LC1K
Device Application	Control
Contactor Application	Resistive load Motor control

### Complementary

AC-3 AC-3e AC-1 AC-4 3P 3 NO Power circuit <= 690 V AC <= 400 Hz Signalling circuit <= 690 V AC <= 400 Hz 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit AC 50/60 Hz 110 V AC 50/60 Hz
AC-1 AC-4 3P 3 NO Power circuit <= 690 V AC <= 400 Hz Signalling circuit <= 690 V AC <= 400 Hz 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit AC 50/60 Hz
AC-4 3P 3 NO Power circuit <= 690 V AC <= 400 Hz Signalling circuit <= 690 V AC <= 400 Hz 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit AC 50/60 Hz
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Signalling circuit <= 690 V AC <= 400 Hz 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 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 AC 50/60 Hz
9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 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 AC 50/60 Hz
9 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 AC 50/60 Hz
20 Å (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit AC 50/60 Hz
AC 50/60 Hz
TTU V AC 50/00 HZ
2.2 kW 220230 V AC 50/60 Hz AC-3
4 kW 380415 V AC 50/60 Hz AC-3
4 kW 440/690 V AC 50/60 Hz AC-3
2.2 kW 220230 V AC 50/60 Hz AC-3e
4 kW 380415 V AC 50/60 Hz AC-3e
4 kW 440/690 V AC 50/60 Hz AC-3e
2.2 kW 220230 V AC 50/60 Hz AC-4
4 kW 380415 V AC 50/60 Hz AC-4
4 kW 440/690 V AC 50/60 Hz AC-4
1 NO
8 kV
Ш
20 A (at 140 °F (60 °C)) for power circuit
10 A (at 122 °F (50 °C)) for signalling circuit
110 A AC for power circuit conforming to IEC 60947
110 A AC for signalling circuit conforming to IEC 60947

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

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 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 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 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
Insulation Resistance	> 10 MOhm for signalling 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
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 0.000.01 in <sup>2</sup> (1.54 mm <sup>2</sup> )solid screw clamp terminals 1 0.000.01 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.000.00 in <sup>2</sup> (0.342.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.000.01 in <sup>2</sup> (1.54 mm <sup>2</sup> )solid screw clamp terminals 2 0.000.01 in <sup>2</sup> (0.754 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.000.01 in <sup>2</sup> (0.341.5 mm <sup>2</sup> )flexible without 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
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
Electrical Durability	1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3e <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 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	2.28 in (58 mm)
Width	1.77 in (45 mm)

Depth

#### 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
Protective Treatment	TC IEC 60068 TC DIN 50016
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	3389110428483
Returnability	Yes
Country Of Origin	FR

# **Packing Units**

0	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.89 in (4.8 cm)
Package 1 Width	2.44 in (6.2 cm)
Package 1 Length	2.60 in (6.6 cm)
Package 1 Weight	6.28 oz (178.0 g)
Unit Type Of Package 2	\$02
Number Of Units In Package 2	50
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	20.62 lb(US) (9.355 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	800
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	348.73 lb(US) (158.18 kg)

## **Contractual warranty**

Warranty

18 months

### Sustainability Screen

**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
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