

# Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, 1t or eq to 440V 9A, 1 NO aux., 48VAC coil

LC1K0910E7

Product availability: Non-Stock - Not 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<br>Motor control |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-3<br>AC-3e<br>AC-1<br>AC-4                                                                                                                                                                                                                                                                                                                |
| poles description                           | 3P                                                                                                                                                                                                                                                                                                                                           |
| power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                                                         |
| [Ue] rated operational voltage              | Power circuit <= 690 V AC <= 400 Hz<br>Signalling circuit <= 690 V AC <= 400 Hz                                                                                                                                                                                                                                                              |
| [Ie] rated operational current              | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit<br>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                | 48 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                             |
| Motor power kW                              | 2.2 kW 220...230 V AC 50/60 Hz AC-3<br>4 kW 380...415 V AC 50/60 Hz AC-3<br>4 kW 440/690 V AC 50/60 Hz AC-3<br>2.2 kW 220...230 V AC 50/60 Hz AC-3e<br>4 kW 380...415 V AC 50/60 Hz AC-3e<br>4 kW 440/690 V AC 50/60 Hz AC-3e<br>2.2 kW 220...230 V AC 50/60 Hz AC-4<br>4 kW 380...415 V AC 50/60 Hz AC-4<br>4 kW 440/690 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 current | 20 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 122 °F (50 °C)) for signalling circuit                                                                                                                                                                                                                                                |
| Irms rated making capacity                  | 110 A AC for power circuit conforming to IEC 60947<br>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.

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rated breaking capacity</b>                  | 110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                   |
| <b>[Icw] rated short-time withstand current</b> | 90 A 122 °F (50 °C) - 1 s for power circuit<br>85 A 122 °F (50 °C) - 5 s for power circuit<br>80 A 122 °F (50 °C) - 10 s for power circuit<br>60 A 122 °F (50 °C) - 30 s for power circuit<br>45 A 122 °F (50 °C) - 1 min for power circuit<br>40 A 122 °F (50 °C) - 3 min for power circuit<br>20 A 122 °F (50 °C) - >= 15 min for power circuit<br>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit                                                                                                                                                                    |
| <b>Associated fuse rating</b>                   | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>10 A gG for signalling circuit conforming to VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Average impedance</b>                        | 3 mOhm - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Insulation resistance</b>                    | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Inrush power in VA</b>                       | 30 VA (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hold-in power consumption in VA</b>          | 4.5 VA (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Heat dissipation</b>                         | 1.3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Control circuit voltage limits</b>           | Operational: 0.8...1.15 U <sub>c</sub> (at <122 °F (50 °C))<br>Drop-out: >= 0.20 U <sub>c</sub> (at <122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Connections - terminals</b>                  | screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 1 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 1 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 2 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 2 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end |
| <b>Maximum operating rate</b>                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Auxiliary contacts type</b>                  | Instantaneous 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Signalling circuit frequency</b>             | <= 400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Minimum switching current</b>                | 5 mA for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Minimum switching voltage</b>                | 17 V for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Operating time</b>                           | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Safety reliability level</b>                 | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Non overlap distance</b>                     | 0.02 in (0.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Mechanical durability</b>                    | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Electrical durability</b>                    | 1.3 Mcycles 9 A AC-3 <= 440 V<br>1.3 Mcycles 9 A AC-3e <= 440 V<br>0.16 Mcycles 20 A AC-1 <= 690 V<br>0.02 Mcycles 54 A AC-4 <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Mechanical robustness</b>                    | Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6                                                                                              |
| <b>Height</b>                                   | 2.3 in (58 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Width</b>                                    | 1.8 in (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

---

|       |                |
|-------|----------------|
| Depth | 2.2 in (57 mm) |
|-------|----------------|

## Environment

---

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards              | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ |
| Product Certifications | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                          |
| Protective treatment   | TC IEC 60068<br>TC DIN 50016                                                                                                                                                |
| Operating altitude     | 6561.68 ft (2000 m) without derating                                                                                                                                        |
| Flame retardance       | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102                                                                |

## Ordering and shipping details

---

|                   |               |
|-------------------|---------------|
| Category          | US10I1222326  |
| Discount Schedule | 0I12          |
| GTIN              | 3389110374766 |
| 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 (6.6 cm)        |
| Package 1 Width              | 1.9 in (4.8 cm)        |
| Package 1 Length             | 2.4 in (6.2 cm)        |
| Package 1 Weight             | 6.3 oz (179 g)         |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 50                     |
| Package 2 Height             | 5.9 in (15 cm)         |
| Package 2 Width              | 11.8 in (30 cm)        |
| Package 2 Length             | 15.7 in (40 cm)        |
| Package 2 Weight             | 20.83 lb(US) (9.45 kg) |

## Contractual warranty

---

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)



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 [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](http://www.P65Warnings.ca.gov)

---