

Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, 1t or eq to 440V 16A, 1 NO aux., 230VAC coil

LC1K1610P7

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

Price*: 172.00 USD

Main

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

Complementary

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| Utilisation category | AC-3 AC-3e |
| 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 |
| [Ie] rated operational current | 16 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 16 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| Control circuit type | AC 50/60 Hz |
| [Uc] control circuit voltage | 230 V AC 50/60 Hz |
| Motor power kW | 4 kW 220...230 V AC 50/60 Hz AC-3 7.5 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 4 kW 220...230 V AC 50/60 Hz AC-3e 7.5 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 |
| 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 10 A (at 122 °F (50 °C)) for signalling circuit |
| Irms rated making capacity | 160 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 660...690 V 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.

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| [Icw] rated short-time withstand current | 115 A 122 °F (50 °C) - 1 s for power circuit 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 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 - lth 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 |
| 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: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.20 Uc (at <122 °F (50 °C)) |
| Connections - terminals | screw clamp terminals 1 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 1 0.001...0.006 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 1 0.0005...0.004 in ² (0.34...2.5 mm ²)flexible with cable end screw clamp terminals 2 0.002...0.006 in ² (1.5...4 mm ²)solid screw clamp terminals 2 0.001...0.006 in ² (0.75...4 mm ²)flexible without cable end screw clamp terminals 2 0.0005...0.002 in ² (0.34...1.5 mm ²)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 | 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals pozidriv No 2 |
| 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 |
| Non overlap distance | 0.02 in (0.5 mm) |
| Mechanical durability | 10 Mcycles |
| Electrical durability | 1.3 Mcycles 16 A AC-3 <= 440 V 1.3 Mcycles 16 A AC-3e <= 440 V |

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|------------------------------|---|
| 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, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5...300 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

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| 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 UKCA |
| IP degree of protection | IP2X VDE 0106 |
| Protective treatment | TC IEC 60068 TC DIN 50016 |
| Ambient air temperature for operation | -13...122 °F (-25...50 °C) |
| Ambient Air Temperature for Storage | -58...176 °F (-50...80 °C) |
| Operating altitude | 6561.68 ft (2000 m) without derating |
| Flame retardance | V1 conforming to UL 94 |

Ordering and shipping details

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|--------------------------|---------------|
| Category | US10I1222326 |
| Discount Schedule | 0I12 |
| GTIN | 3389110509175 |
| Returnability | No |
| Country of origin | FR |

Packing Units

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|-------------------------------------|----------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.772 in (4.500 cm) |
| Package 1 Width | 2.362 in (6.000 cm) |
| Package 1 Length | 2.559 in (6.500 cm) |
| Package 1 Weight | 6.346 oz (179.900 g) |
| Unit Type of Package 2 | S02 |

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|-------------------------------------|-----------------------------|
| 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 | 20.353 lb(US) (9.232 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 | 343.278 lb(US) (155.708 kg) |

Contractual warranty

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|-----------------|-----------|
| 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-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 [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
