

# Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, 1t or eq to 440V 16A, 1 NO aux., 220 to 230VAC coil

LC1K16106M7

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

Price\*: 172.00 USD

## Main

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

## Complementary

|   |  |
|---|--|
| Utilisation category                        | AC-3<br>AC-3e  |
| 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              | 16 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>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                | 220...230 V AC 50/60 Hz  |
| Motor power kW                              | 4 kW 220...230 V AC 50/60 Hz AC-3<br>7.5 kW 380...415 V AC 50/60 Hz AC-3<br>5.5 kW 440 V AC 50/60 Hz AC-3<br>4 kW 690 V AC 50/60 Hz AC-3<br>4 kW 220...230 V AC 50/60 Hz AC-3e<br>7.5 kW 380...415 V AC 50/60 Hz AC-3e<br>5.5 kW 440 V AC 50/60 Hz AC-3e<br>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<br>10 A (at 122 °F (50 °C)) for signalling circuit  |
| Irms rated making capacity                  | 160 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947  |
| Rated breaking capacity                     | 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   |

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

|   |   |
|---|---|
| <b>[Icw] rated short-time withstand current</b> | 115 A 122 °F (50 °C) - 1 s for power circuit<br>105 A 122 °F (50 °C) - 5 s for power circuit<br>100 A 122 °F (50 °C) - 10 s for power circuit<br>75 A 122 °F (50 °C) - 30 s for power circuit<br>55 A 122 °F (50 °C) - 1 min for power circuit<br>50 A 122 °F (50 °C) - 3 min for power circuit<br>25 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 - lth 20 A 50 Hz for power circuit   |
| <b>[Ui] rated insulation voltage</b>            | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-5-1<br>Signalling circuit 600 V UL 508<br>Power circuit 600 V CSA C22.2 No 14<br>Signalling circuit 600 V CSA C22.2 No 14   |
| <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 Uc (at <122 °F (50 °C))<br>Drop-out: >= 0.20 Uc (at <122 °F (50 °C))  |
| <b>Connections - terminals</b>                  | lugs-ring terminals 0.3 in (7 mm))  |
| <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>Mounting Support</b>                         | Plate<br>Rail   |
| <b>Tightening torque</b>                        | 7.08...11.5 lbf.in (0.8...1.3 N.m) lugs-ring terminals Philips No 2<br>7.08...11.5 lbf.in (0.8...1.3 N.m) lugs-ring terminals flat Ø 6 mm<br>7.08...11.5 lbf.in (0.8...1.3 N.m) lugs-ring terminals pozidriv No 2   |
| <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 16 A AC-3 <= 440 V<br>1.3 Mcycles 16 A AC-3e <= 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)        |
| <b>Depth</b>      | 2.2 in (57 mm)        |
| <b>Net Weight</b> | 0.40 lb(US) (0.18 kg) |

## Environment

|  |   |
|--|---|
| <b>Standards</b>                             | 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 |
| <b>Product Certifications</b>                | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA  |
| <b>IP degree of protection</b>               | IP2X VDE 0106   |
| <b>Protective treatment</b>                  | TC IEC 60068<br>TC DIN 50016  |
| <b>Ambient air temperature for operation</b> | -13...122 °F (-25...50 °C)  |
| <b>Ambient Air Temperature for Storage</b>   | -58...176 °F (-50...80 °C)  |
| <b>Operating altitude</b>                    | 6561.68 ft (2000 m) without derating  |
| <b>Flame retardance</b>                      | V1 conforming to UL 94  |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10I1222326  |
| <b>Discount Schedule</b> | 0112          |
| <b>GTIN</b>              | 3389118022270 |
| <b>Returnability</b>     | No            |
| <b>Country of origin</b> | FR            |

## Packing Units

|                                     |                  |
|-------------------------------------|------------------|
| <b>Unit Type of Package 1</b>       | PCE              |
| <b>Number of Units in Package 1</b> | 1                |
| <b>Package 1 Height</b>             | 2.60 in (6.6 cm) |
| <b>Package 1 Width</b>              | 1.89 in (4.8 cm) |
| <b>Package 1 Length</b>             | 2.44 in (6.2 cm) |
| <b>Package 1 Weight</b>             | 6.4 oz (182.0 g) |

## Contractual warranty

|                 |           |
|-----------------|-----------|
| <b>Warranty</b> | 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 >](#)

[How we assess product sustainability >](#)



Sustainable Packaging | 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)

Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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)