



### Main

|                           |                |
|---------------------------|----------------|
| Range                     | TeSys          |
| Product or Component Type | Contacteur     |
| Device short name         | LC1K           |
| Device Application        | Control        |
| Contacteur application    | Resistive load |

### Complementary

|   |   |
|---|---|
| Utilisation category                        | AC-1  |
| Poles description                           | 4P  |
| Power pole contact composition              | 2 NO + 2 NC   |
| [Ue] rated operational voltage              | Power circuit $\leq 690$ V AC $\leq 400$ Hz<br>Signalling circuit $\leq 690$ V AC $\leq 400$ Hz   |
| [Ie] rated operational current              | 20 A (at $<140$ °F (60 °C)) at $\leq 690$ V AC AC-1 for power circuit   |
| Control circuit type                        | AC 50/60 Hz   |
| [Uc] control circuit voltage                | 48 V AC 50/60 Hz  |
| [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  |
| Rated breaking capacity                     | 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  |
| [Icw] rated short-time withstand current    | 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) - $\geq 15$ min for power circuit |
| Associated fuse rating                      | 25 A gG at $\leq 440$ V for power circuit<br>25 A aM for power circuit  |
| Average impedance                           | 3 mOhm - Ith 20 A 50 Hz for power circuit   |
| [Ui] rated insulation voltage               | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V CSA C22.2 No 14  |
| 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))<br>Drop-out: $\geq 0.20$ Uc (at $<122$ °F (50 °C))  |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                              |  |
|------------------------------|--|
| Connections - terminals      | Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>Screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>Screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>Screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end |
| Maximum operating rate       | 3600 cyc/h   |
| Signalling circuit frequency | <= 400 Hz  |
| Mounting Support             | Rail<br>Plate  |
| Tightening torque            | 7.08...11.51 Lbf.In (0.8...1.3 N.m) screw clamp terminals Philips No 2<br>7.08...11.51 Lbf.In (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm<br>7.08...11.51 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<br>10...20 ms coil energisation and NO closing<br>15...25 ms coil de-energisation and NC closing<br>5...15 ms coil energisation and NC opening  |
| Safety reliability level     | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1   |
| Mechanical durability        | 10 Mcycles   |
| Electrical durability        | 0.16 Mcycles 20 A AC-1 <= 690 V  |
| Mechanical robustness        | 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  |
| Height                       | 2.28 in (58 mm)  |
| Width                        | 1.77 in (45 mm)  |
| Depth                        | 2.24 in (57 mm)  |
| Net Weight                   | 0.40 lb(US) (0.18 kg)  |

## 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                  |
| Product Certifications              | CB<br>Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]UKCA                                |
| IP degree of protection             | IP2X VDE 0106  |
| Protective treatment                | TC IEC 60068<br>TC DIN 50016   |
| 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<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |

## Ordering and shipping details

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22326-CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12                             |
| GTIN              | 3389110488814                   |
| Returnability     | No                              |
| Country of origin | FR                              |

## Packing Units

|                              |                            |
|------------------------------|----------------------------|
| Unit Type of Package 1       | PCE                        |
| Number of Units in Package 1 | 1                          |
| Package 1 Height             | 1.89 in (4.800 cm)         |
| Package 1 Width              | 2.44 in (6.200 cm)         |
| Package 1 Length             | 2.56 in (6.500 cm)         |
| Package 1 Weight             | 6.37 oz (180.500 g)        |
| Unit Type of Package 2       | S02                        |
| Number of Units in Package 2 | 50                         |
| Package 2 Height             | 5.91 in (15.000 cm)        |
| Package 2 Width              | 11.81 in (30.000 cm)       |
| Package 2 Length             | 15.75 in (40.000 cm)       |
| Package 2 Weight             | 20.47 lb(US) (9.285 kg)    |
| Unit Type of Package 3       | P06                        |
| Number of Units in Package 3 | 800                        |
| Package 3 Height             | 29.53 in (75.000 cm)       |
| Package 3 Width              | 31.50 in (80.000 cm)       |
| Package 3 Length             | 23.62 in (60.000 cm)       |
| Package 3 Weight             | 345.16 lb(US) (156.560 kg) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>   |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| RoHS exemption information | <a href="#">Yes</a>   |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |
| Circularity Profile        | <a href="#">End Of Life Information</a>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.  |

## Contractual warranty

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