



## Main

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

## Complementary

|   |  |
|---|--|
| Utilisation category                        | AC-1   |
| Poles description                           | 4P   |
| Power pole contact composition              | 4 NO   |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz  |
| [Ie] rated operational current              | 20 A 122 °F (50 °C) ≤ 440 V AC AC-1 power circuit<br>16 A 158 °F (70 °C) 690 V AC AC-1 power circuit   |
| Control circuit type                        | AC 50/60 Hz  |
| [Uc] control circuit voltage                | 110 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overtoltage category                        | III  |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit  |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947   |
| Rated breaking capacity                     | 110 A 415 V IEC 60947<br>110 A 440 V IEC 60947<br>80 A 500 V IEC 60947<br>110 A 220...230 V IEC 60947<br>110 A 380...400 V IEC 60947<br>70 A 660...690 V IEC 60947   |
| [Icw] rated short-time withstand current    | 90 A 122 °F (50 °C) - 1 s power circuit<br>85 A 122 °F (50 °C) - 5 s power circuit<br>80 A 122 °F (50 °C) - 10 s power circuit<br>60 A 122 °F (50 °C) - 30 s power circuit<br>45 A 122 °F (50 °C) - 1 min power circuit<br>40 A 122 °F (50 °C) - 3 min power circuit<br>20 A 122 °F (50 °C) - ≥ 15 min power circuit |
| Associated fuse rating                      | 25 A gG ≤ 440 V power circuit<br>25 A aM power circuit   |
| Average impedance                           | 3 mOhm - Ith 20 A 50 Hz 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 68 °F (20 °C)  |
| Hold-in power consumption in VA             | 4.5 VA 68 °F (20 °C)   |
| Heat dissipation                            | 1.3 W  |
| Control circuit voltage limits              | Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C)<br>Drop-out 0.2...0.75 U <sub>c</sub> 122 °F (50 °C)  |

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|                              |  |
|------------------------------|--|
| 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            | 11.51 Lbf.In (1.3 N.m) screw clamp terminals Philips No 2<br>11.51 Lbf.In (1.3 N.m) screw clamp terminals flat Ø 6 mm<br>11.51 lbf.in (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  |
| Safety reliability level     | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 2000000 cycles contactor with mechanical load EN/ISO 13849-1  |
| Mechanical durability        | 10 Mcycles   |
| Electrical durability        | 0.18 Mcycles 20 A AC-1 <= 440 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                           | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660  |
| Product Certifications              | CSA<br>UL<br>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                  | 3389110488425                   |
| Nbr. of units in pkg. | 1                               |
| Package weight(Lbs)   | 6.38 oz (181.0 g)               |
| Returnability         | No                              |
| Country of origin     | ID                              |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 2.56 in (6.5 cm)        |
| Package 1 width              | 2.40 in (6.1 cm)        |
| Package 1 Length             | 1.97 in (5 cm)          |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 50                      |
| Package 2 Weight             | 20.74 lb(US) (9.406 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## 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   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</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 |
|----------|-----------|