



## Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range                     | TeSys                           |
| Product or Component Type | Contacteur                      |
| Device short name         | LC1K                            |
| Device Application        | Control                         |
| Contacteur application    | Motor control<br>Resistive load |

## 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 $\leq 690$ V AC $\leq 400$ Hz<br>Signalling circuit $\leq 690$ V AC $\leq 400$ Hz  |
| [Ie] rated operational current              | 12 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC AC-3 for power circuit<br>12 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC AC-3e for power circuit<br>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                | 230...240 V AC 50/60 Hz  |
| Motor power kW                              | 3 KW 220...230 V AC 50/60 Hz AC-3<br>5.5 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>3 KW 220...230 V AC 50/60 Hz AC-3e<br>5.5 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<br>3 KW 220...230 V AC 50/60 Hz AC-4<br>5.5 KW 380...415 V AC 50/60 Hz AC-4<br>5.5 KW 440 V AC 50/60 Hz AC-4<br>4 kW 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                  | 144 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   |

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|  |  |
|--|--|
| [Icw] rated short-time withstand current | 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   |
| Associated fuse rating                   | 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  |
| Average impedance                        | 3 mOhm - lth 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>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  |
| 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))<br>Drop-out: >= 0.20 Uc (at <122 °F (50 °C))   |
| 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   |
| 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                         | 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  |
| 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  |
| Non overlap distance                     | 0.02 in (0.5 mm)   |
| Mechanical durability                    | 10 Mcycles   |
| Electrical durability                    | 1.3 Mcycles 12 A AC-3 <= 440 V<br>1.3 Mcycles 12 A AC-3e <= 440 V<br>0.3 Mcycles 20 A AC-1 <= 690 V<br>0.02 Mcycles 72 A AC-4 <= 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                           | 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]UK[RETURN]                          |
| 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              | 03389110346190                  |
| Returnability     | No                              |
| Country of origin | ID                              |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Number of Units in Package 1 | 1                       |
| Package 1 Height             | 2.44 in (6.200 cm)      |
| Package 1 Width              | 1.89 in (4.800 cm)      |
| Package 1 Length             | 2.56 in (6.500 cm)      |
| Package 1 Weight             | 6.28 oz (178.000 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             | 20.76 lb(US) (9.415 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> |
| RECh Regulation            | <a href="#">RECh Declaration</a>  |
| RECh 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

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Warranty

18 months

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