

# Product data sheet

Specifications



## TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 24 V AC coil

LC1K0610B7

Product availability : Stock - Normally stocked in distribution facility

### Main

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

### Complementary

|                                             |                                                                                                                                                                                                                                                     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-4<br>AC-3                                                                                                                                                                                                                                        |
| Poles description                           | 3P                                                                                                                                                                                                                                                  |
| Power pole contact composition              | 3 NO                                                                                                                                                                                                                                                |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz<br>Signalling circuit <= 690 V AC 50/60 Hz                                                                                                                                                                          |
| [Ie] rated operational current              | 6 A<= 440 V AC AC-3 power circuit                                                                                                                                                                                                                   |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                                                                                         |
| [Uc] control circuit voltage                | 24 V AC 50/60 Hz                                                                                                                                                                                                                                    |
| Motor power kW                              | 1.5 kW 220...230 V AC 50/60 Hz AC-3<br>2.2 kW 380...415 V AC 50/60 Hz AC-3<br>3 kW 440 V AC 50/60 Hz AC-3<br>3 kW 480 V AC 50/60 Hz AC-3<br>3 kW 500...600 V AC 50/60 Hz AC-3<br>3 kW 660...690 V AC 50/60 Hz AC-3<br>1.5 kW 400 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 122 °F (50 °C) power circuit<br>10 A 122 °F (50 °C) signalling circuit                                                                                                                                                                         |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947<br>110 A AC signalling 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                                                                                                                                               |

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|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                          | 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<br>80 A - 1 s signalling circuit<br>90 A - 500 ms signalling circuit<br>110 A - 100 ms signalling circuit                                                                                                               |
| Associated fuse rating                   | 25 A gG <= 440 V power circuit<br>25 A aM power circuit<br>10 A gG signalling circuit IEC 60947<br>10 A gG signalling circuit VDE 0660                                                                                                                                                                                                                                                                                                                                                                                                        |
| Average impedance                        | 3 mOhm - lth 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>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 signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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 Uc 122 °F (50 °C))<br>Drop-out 0.2...0.75 Uc 122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Connections - terminals                  | screw clamp terminals 1 0.00...0.01 in² (1.5...4 mm²)solid<br>screw clamp terminals 1 0.00...0.01 in² (0.75...4 mm²)flexible without cable end<br>screw clamp terminals 1 0.00...0.00 in² (0.34...2.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.00...0.01 in² (1.5...4 mm²)solid<br>screw clamp terminals 2 0.00...0.01 in² (0.75...4 mm²)flexible without cable end<br>screw clamp terminals 2 0.00...0.00 in² (0.34...1.5 mm²)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 signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum switching voltage                | 17 V signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 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) lugs-ring 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 = 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 6 A AC-3 <= 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                  | 3389110365139                   |
| Nbr. of units in pkg. | 1                               |
| Package weight(Lbs)   | 6.29 oz (178.3 g)               |
| Returnability         | Yes                             |
| Country of origin     | ID                              |

## Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 1.89 in (4.8 cm)         |
| Package 1 width              | 2.40 in (6.1 cm)         |
| Package 1 Length             | 2.56 in (6.5 cm)         |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 50                       |
| Package 2 Weight             | 20.23 lb(US) (9.175 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)         |
| Unit Type of Package 3       | P06                      |
| Number of Units in Package 3 | 800                      |
| Package 3 Weight             | 341.28 lb(US) (154.8 kg) |
| Package 3 Height             | 29.53 in (75 cm)         |
| Package 3 width              | 31.50 in (80 cm)         |
| Package 3 Length             | 23.62 in (60 cm)         |

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Offer Sustainability

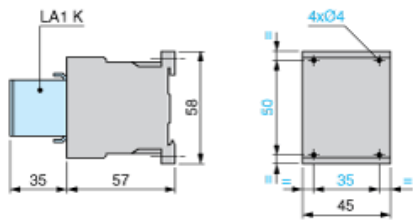
|                            |                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 P65Warnings website |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                                                                                                          |
| REACH free of SVHC         | Yes                                                                                                                                                                                                        |
| EU RoHS Directive          | Compliant<br><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><br>Pro-active China RoHS declaration (out of China RoHS legal scope)                                                                                                |
| 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

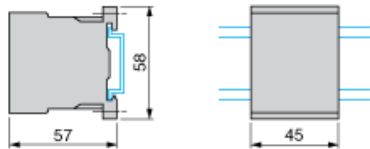
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Dimensions

Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel

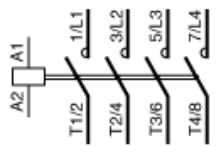


Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C

