

# Product data sheet

Specifications



## TeSys K reversing contactor , 3P , AC-3 <= 440 V 6 A , 1 NO , 110 V AC coil

LC2K0610F7

Product availability : Stock - Normally stocked in distribution facility

### Main

|                                             |                                                                                                                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                |
| Product name                                | TeSys K                                                                                                                                                                              |
| Product or Component Type                   | Reversing contactor                                                                                                                                                                  |
| Device short name                           | LC2K                                                                                                                                                                                 |
| Device application                          | Control                                                                                                                                                                              |
| Contactor application                       | Motor control                                                                                                                                                                        |
| Utilisation category                        | AC-4<br>AC-3                                                                                                                                                                         |
| Device presentation                         | Preassembled with reversing power busbar                                                                                                                                             |
| 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                                                                                                                                                    |
| Motor power kW                              | 1.5 kW 220...230 V AC 50/60 Hz<br>2.2 kW 380...415 V AC 50/60 Hz<br>3 kW 440 V AC 50/60 Hz<br>3 kW 480 V AC 50/60 Hz<br>3 kW 500...600 V AC 50/60 Hz<br>3 kW 660...690 V AC 50/60 Hz |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                          |
| [Uc] control circuit voltage                | 110 V AC 50/60 Hz                                                                                                                                                                    |
| 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<br>110 A 380...400 V IEC 60947                                                 |

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|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 70 A 660...690 V IEC 60947                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>[Icw] rated short-time withstand current</b> | 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>80 A - 1 s signalling circuit<br>90 A - 500 ms signalling circuit<br>110 A - 100 ms signalling circuit<br>20 A 122 °F (50 °C) - >= 15 min power circuit                                        |
| <b>Associated fuse rating</b>                   | 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                                                                                                                                                                                                                                                                                                                                 |
| <b>Average impedance</b>                        | 3 mOhm - lth 20 A 50 Hz 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>Electrical durability</b>                    | 1.3 Mcycles 6 A AC-3 <= 440 V                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Interlocking type</b>                        | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Mounting Support</b>                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Standards</b>                                | IEC 60947<br>VDE 0660<br>BS 5424<br>NF C 63-110                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Product certifications</b>                   | UL<br>CSA<br>UKCA                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Connections - terminals</b>                  | 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 |
| <b>Tightening torque</b>                        | 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                                                                                                                                                                                                                                                                                    |
| <b>Operating time</b>                           | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening                                                                                                                                                                                                                                                                                                                                                                          |
| <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>Mechanical durability</b>                    | 5 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Maximum operating rate</b>                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Complementary</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Control circuit voltage limits</b>           | Operational 0.8...1.15 Uc 122 °F (50 °C))<br>Drop-out 0.2...0.75 Uc 122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Inrush power in VA</b>                       | 30 VA 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hold-in power consumption in VA</b>          | 4.5 VA 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Heat dissipation</b>                         | 1.3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Auxiliary contacts type</b>                  | Instantaneous 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Signalling circuit frequency</b>             | <= 400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Minimum switching current</b>                | 5 mA signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Minimum switching voltage</b>                | 17 V signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Non overlap distance</b>                     | 0.02 in (0.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Insulation resistance</b>                    | > 10 MOhm signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP20 VDE 0106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Protective treatment                  | TC IEC 60068<br>TC DIN 50016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Ambient Air Temperature for Operation | -13...122 °F (-25...50 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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                                 | 3.54 in (90 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Depth                                 | 2.24 in (57 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Net weight                            | 0.86 lb(US) (0.39 kg)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Ordering and shipping details

|                       |                              |
|-----------------------|------------------------------|
| Category              | 22327-CTR,K-LINE,AC,OPEN,REV |
| Discount Schedule     | I12                          |
| GTIN                  | 3389110491180                |
| Nbr. of units in pkg. | 1                            |
| Package weight(Lbs)   | 12.77 oz (362 g)             |
| Returnability         | Yes                          |
| Country of origin     | FR                           |

Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type of Package 1       | PCE                    |
| Package 1 Height             | 2.36 in (6 cm)         |
| Package 1 width              | 2.56 in (6.5 cm)       |
| Package 1 Length             | 3.62 in (9.2 cm)       |
| Unit Type of Package 2       | S02                    |
| Number of Units in Package 2 | 25                     |
| Package 2 Weight             | 20.77 lb(US) (9.42 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)       |

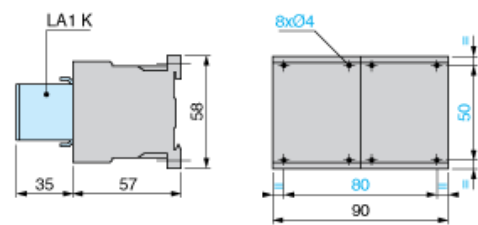
Offer Sustainability

|                          |                       |
|--------------------------|-----------------------|
| Sustainable offer status | Green Premium product |
|--------------------------|-----------------------|

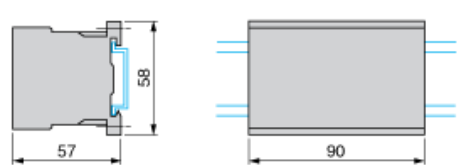
|                             |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 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.                                                                               |
| <b>Contractual warranty</b> |                                                                                                                                                                                                            |
| Warranty                    | 18 months                                                                                                                                                                                                  |

Dimensions

Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Panel

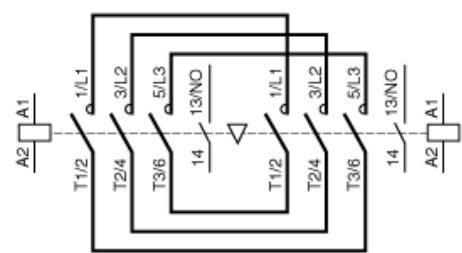


Reversing Contactors LC2 K, LP2 K, LP5 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



Wiring

3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/O



3-Pole Reversing Contactors with Screw Clamp Connections: 3P + N/C

