

# Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, It or eq to 440V 6A, 1 NO aux., 110VAC coil

LC1K0610F7

Product availability: Stock - Normally stocked in distribution facility

## Main

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

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-3<br>AC-3e<br>AC-4                                                                                                                                                                                                                                                                                                                              |
| Poles description                           | 3P                                                                                                                                                                                                                                                                                                                                                 |
| power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                                                               |
| [Ue] rated operational voltage              | Power circuit <= 690 V AC <= 400 Hz<br>Signalling circuit <= 690 V AC <= 400 Hz                                                                                                                                                                                                                                                                    |
| [Ie] rated operational current              | 6 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>6 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit                                                                                                                                                                                                                  |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                        |
| [Uc] control circuit voltage                | 110 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 440/690 V AC 50/60 Hz AC-3<br>1.5 kW 220...230 V AC 50/60 Hz AC-3e<br>2.2 kW 380...415 V AC 50/60 Hz AC-3e<br>3 kW 440/690 V AC 50/60 Hz AC-3e<br>1.5 kW 220...230 V AC 50/60 Hz AC-4<br>2.2 kW 380...415 V AC 50/60 Hz AC-4<br>3 kW 440/690 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                  | 110 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 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                                                                           |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>[Icw] rated short-time withstand current</b> | 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) - >= 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              |
| <b>Associated fuse rating</b>                   | 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                                                                                                                                                                                                                                                                                                |
| <b>Average impedance</b>                        | 3 mOhm - lth 20 A 50 Hz for 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>Insulation resistance</b>                    | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Inrush power in VA</b>                       | 30 VA (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Hold-in power consumption in VA</b>          | 4.5 VA (at 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Heat dissipation</b>                         | 1.3 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Control circuit voltage limits</b>           | Operational: 0.8...1.15 Uc (at <122 °F (50 °C))<br>Drop-out: >= 0.20 Uc (at <122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Connections - terminals</b>                  | screw clamp terminals 1 0.002...0.006 in² (1.5...4 mm²)solid<br>screw clamp terminals 1 0.001...0.006 in² (0.75...4 mm²)flexible without cable end<br>screw clamp terminals 1 0.0005...0.004 in² (0.34...2.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.002...0.006 in² (1.5...4 mm²)solid<br>screw clamp terminals 2 0.001...0.006 in² (0.75...4 mm²)flexible without cable end<br>screw clamp terminals 2 0.0005...0.002 in² (0.34...1.5 mm²)flexible with cable end |
| <b>Maximum operating rate</b>                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Auxiliary contacts type</b>                  | Instantaneous 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Signalling circuit frequency</b>             | <= 400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Minimum switching current</b>                | 5 mA for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Minimum switching voltage</b>                | 17 V for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Mounting Support</b>                         | Plate<br>Rail                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tightening torque</b>                        | 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2<br>7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm<br>7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals pozidriv No 2                                                                                                                                                                                                                                                              |
| <b>Operating time</b>                           | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>Non overlap distance</b>                     | 0.02 in (0.5 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Mechanical durability</b>                    | 10 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Electrical durability</b>                    | 1.3 Mcycles 6 A AC-3 <= 440 V<br>1.3 Mcycles 6 A AC-3e <= 440 V<br>0.05 Mcycles 36 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                | 2.3 in (58 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Width                 | 1.8 in (45 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                 | 2.2 in (57 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Product 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<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ |
| Product Certifications              | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<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          | US10I1222326  |
| Discount Schedule | 0I12          |
| GTIN              | 3389110429381 |
| Returnability     | Yes           |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Nbr. of units in pkg.        | 1                |
| Package 1 Height             | 1.89 in (4.8 cm) |
| Package 1 Width              | 2.44 in (6.2 cm) |
| Package 1 Length             | 2.56 in (6.5 cm) |
| Package weight(Lbs)          | 6.3 oz (179.0 g) |
| Unit Type of Package 2       | S02              |
| Number of Units in Package 2 | 50               |

|                  |                          |
|------------------|--------------------------|
| Package 2 Height | 5.91 in (15 cm)          |
| Package 2 Width  | 11.81 in (30 cm)         |
| Package 2 Length | 15.75 in (40 cm)         |
| Package 2 Weight | 20.609 lb(US) (9.348 kg) |

## Contractual warranty

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

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

| Environmental footprint                        |                                               |
|------------------------------------------------|-----------------------------------------------|
| Carbon footprint (kg CO2 eq, Total Life cycle) | 50                                            |
| Environmental Disclosure                       | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                                  |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                              |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                              |
| <a href="#">EU RoHS Directive</a>      | Compliant                                                                                                                                                                                                                                                        |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                |
| California proposition 65              | <b>WARNING:</b> 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> |

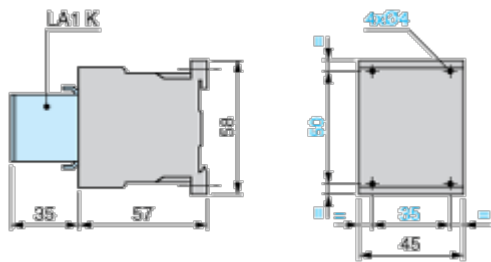
Use Again

| Repack and remanufacture |                                                                                                                                                                                                                  |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Circularity Profile      | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                | No                                                                                                                                                                                                               |
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

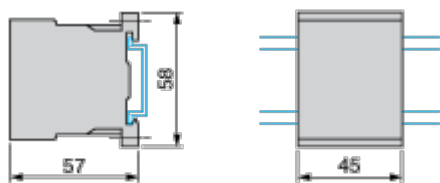
Dimensions Drawings

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)

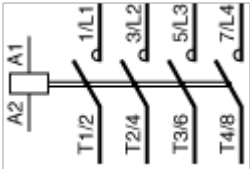


Connections and Schema

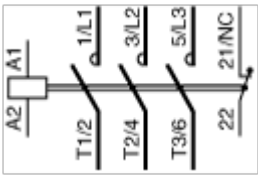
Wiring

---

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C

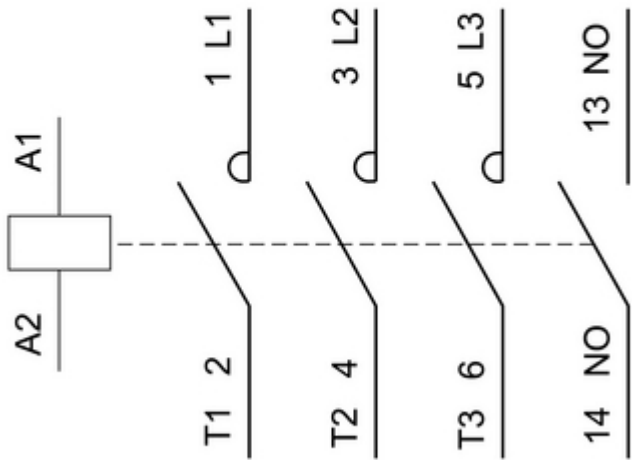


Technical Illustration

Wiring diagram

---

3P NO





Offer Marketing Illustration

Product benefits / Features



### TeSys K

#### Technical Benefits

- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)
- Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories
- Control Options:
  - AC: 24 to 660/690 V, standard or low-noise versions
  - DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays
- It Features specific versions for railway (TeSys S207) and electrodomeestic (TeSys S335) applications

Offer Marketing Illustration

Product benefits / Features

---

TeSys K  
Contactors



Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



Safety

It provide ultimate protection with IP20 finger-safe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



Compact size

Up to 50% less volume is captured in your panels. One of he smallest contactors offerings in the market



## Technical Illustration

### Assembly's dimensions

