

# Product data sheet

Specifications



Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 6A, 1 NC, 200 to 208VAC coil

LC2K0601L7

⚠ Discontinued on: Jan 23, 2021

⚠ Discontinued

## 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 at <= 440 V AC AC-3 for 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                | 200...208 V AC 50/60 Hz                                                                                                                                                                                                                                                  |
| Auxiliary contact composition               | 1 NC                                                                                                                                                                                                                                                                     |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                     |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                      |
| [Ith] conventional free air thermal current | 20 A (at 122 °F (50 °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 NF C 63-110<br>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 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>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 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

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Icw] rated short-time withstand current | 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>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit<br>20 A 122 °F (50 °C) - >= 15 min for power circuit              |
| Associated fuse rating                   | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>10 A gG for signalling circuit conforming to VDE 0660                                                                                                                                                                                                                                                                                                |
| Average impedance                        | 3 mOhm - lth 20 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| [Ui] rated insulation voltage            | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-5-1<br>Signalling circuit 600 V UL 508<br>Power circuit 600 V CSA C22.2 No 14<br>Signalling circuit 600 V CSA C22.2 No 14                                                                                                                                                                                                            |
| Electrical durability                    | 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                                                                                                                                                                                                                                                                                                                                                                                   |
| Interlocking type                        | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting Support                         | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Standards                                | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1                                                                                                                                                                                                                                                                                                                                                                                          |
| Product Certifications                   | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Connections - terminals                  | 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 |
| Tightening torque                        | 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                                                                                                                                                                                                                                                              |
| Operating time                           | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening                                                                                                                                                                                                                                                                                                                                                                                        |
| 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                                                                                                                                                                                                                                                                                                                                             |
| Mechanical durability                    | 5 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Maximum operating rate                   | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## Complementary

|                                 |                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------|
| Control circuit voltage limits  | Operational: 0.85...1.1 Uc (at <122 °F (50 °C))<br>Drop-out: 0.2...0.75 Uc (at <122 °F (50 °C)) |
| Inrush power in VA              | 30 VA (at 68 °F (20 °C))                                                                        |
| Hold-in power consumption in VA | 4.5 VA (at 68 °F (20 °C))                                                                       |

|                              |                                  |
|------------------------------|----------------------------------|
| Heat dissipation             | 1.3 W                            |
| Auxiliary contacts type      | Instantaneous 1 NC               |
| Signalling circuit frequency | <= 400 Hz                        |
| Minimum switching current    | 5 mA for signalling circuit      |
| Minimum switching voltage    | 17 V for signalling circuit      |
| Non overlap distance         | 0.02 in (0.5 mm)                 |
| Insulation resistance        | > 10 MOhm for 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                                | 2.3 in (58 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Width                                 | 3.5 in (90 mm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Depth                                 | 2.2 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              | 3389118094185                |
| Returnability     | No                           |
| Country of origin | FR                           |

## Packing Units

|                              |                   |
|------------------------------|-------------------|
| Unit Type of Package 1       | PCE               |
| Number of Units in Package 1 | 1                 |
| Package 1 Height             | 2.6 in (6.5 cm)   |
| Package 1 Width              | 2.4 in (6.0 cm)   |
| Package 1 Length             | 3.6 in (9.2 cm)   |
| Package 1 Weight             | 13.2 oz (375.0 g) |

# Contractual warranty

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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |

Certifications & Standards

|                           |                                                                                                             |
|---------------------------|-------------------------------------------------------------------------------------------------------------|
| Reach Regulation          | <a href="#">REACH Declaration</a>                                                                           |
| Eu Rohs Directive         | Compliant<br><a href="#">EU RoHS Declaration</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>                                                                     |
| California Proposition 65 | WARNING: Cancer - <a href="#">www.P65Warnings.ca.gov</a>                                                    |