

# Product datasheet

Specifications



## TeSys K changeover contactor - 4P - AC-1 $\leq$ 440 V 20 A - 115 V AC coil

LC2K09004FE7

EAN Code: 3389110131055

! Discontinued

### Main

|                                             |                                                                                                                                                                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                                       | TeSys                                                                                                                                                                                                                                                                                  |
| Product name                                | TeSys K                                                                                                                                                                                                                                                                                |
| Product or component type                   | Changeover contactor                                                                                                                                                                                                                                                                   |
| Device short name                           | LC2K                                                                                                                                                                                                                                                                                   |
| Device application                          | Control                                                                                                                                                                                                                                                                                |
| Contactor application                       | Resistive load                                                                                                                                                                                                                                                                         |
| Utilisation category                        | AC-1                                                                                                                                                                                                                                                                                   |
| Device presentation                         | Preassembled with reversing power busbar                                                                                                                                                                                                                                               |
| Poles description                           | 4P                                                                                                                                                                                                                                                                                     |
| power pole contact composition              | 4 NO                                                                                                                                                                                                                                                                                   |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz                                                                                                                                                                                                                                                       |
| [Ie] rated operational current              | 20 A (at $\leq 50$ °C) at $\leq$ 440 V AC AC-1 for power circuit<br>16 A (at $\leq 70$ °C) at 690 V AC AC-1 for power circuit                                                                                                                                                          |
| Control circuit type                        | AC at 50/60 Hz                                                                                                                                                                                                                                                                         |
| [Uc] control circuit voltage                | 115 V AC 50/60 Hz                                                                                                                                                                                                                                                                      |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                                                                   |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                                    |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power 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                                                                                                                                                                             |
| 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               |
| [Icw] rated short-time withstand current    | 90 A 50 °C - 1 s for power circuit<br>85 A 50 °C - 5 s for power circuit<br>80 A 50 °C - 10 s for power circuit<br>60 A 50 °C - 30 s for power circuit<br>45 A 50 °C - 1 min for power circuit<br>40 A 50 °C - 3 min for power circuit<br>20 A 50 °C - $\geq$ 15 min for power circuit |
| Associated fuse rating                      | 25 A gG at $\leq$ 440 V for power circuit<br>25 A aM for power circuit                                                                                                                                                                                                                 |
| Average impedance                           | 3 mOhm - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                              |

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

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage | Power circuit: 600 V conforming to UL 508<br>Power circuit: 690 V conforming to IEC 60947-4-1<br>Power circuit: 600 V conforming to CSA C22.2 No 14                                                                                                                                                                                                                                                              |
| Electrical durability         | 0.18 Mcycles 20 A AC-1 at Ue <= 440 V                                                                                                                                                                                                                                                                                                                                                                            |
| Interlocking type             | Mechanical                                                                                                                                                                                                                                                                                                                                                                                                       |
| Mounting support              | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                    |
| Standards                     | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660                                                                                                                                                                                                                                                                                                                                                                  |
| Product certifications        | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                                               |
| Connections - terminals       | Screw clamp terminals 1 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 2 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm²flexible with cable end |
| Tightening torque             | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm                                                                                                                                                                                                                                                                          |
| 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 conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1                                                                                                                                                                                                                                             |
| Mechanical durability         | 5 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum operating rate        | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                       |

## Complementary

|                                 |                                                                               |
|---------------------------------|-------------------------------------------------------------------------------|
| Control circuit voltage limits  | Operational: 0.8...1.15 Uc (at <50 °C)<br>Drop-out: 0.2...0.75 Uc (at <50 °C) |
| Inrush power in VA              | 30 VA (at 20 °C)                                                              |
| Hold-in power consumption in VA | 4.5 VA (at 20 °C)                                                             |
| Heat dissipation                | 1.3 W                                                                         |

## Environment

|                                       |                                                                                                              |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------|
| IP degree of protection               | IP20 conforming to VDE 0106                                                                                  |
| Protective treatment                  | TC conforming to IEC 60068<br>TC conforming to DIN 50016                                                     |
| Ambient air temperature for operation | -25...50 °C                                                                                                  |
| Ambient air temperature for storage   | -50...80 °C                                                                                                  |
| Operating altitude                    | 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 axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 |
| Height                | 58 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Width                 | 90 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Depth                 | 57 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Net weight            | 0.38 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Packing Units

|                              |     |
|------------------------------|-----|
| Unit Type of Package 1       | PCE |
| Number of Units in Package 1 | 1   |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## 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 >](#)

### Use Longer

| Lifetime extension |    |
|--------------------|----|
| Repair             | No |

### Use Again

| Repack and remanufacture |                                                                                                                                                                                                               |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WEEE Label               |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |