

# Product data sheet

Specifications



## TeSys K contactor , 3P , AC-3 <= 440 V 9 A , 1 NO aux. , 230 V AC coil

LC1K09105P72

⚠ Discontinued on: Jul 24, 2022

⚠ Discontinued

### Main

|                                |                                                                                                                                                            |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product               | TeSys K                                                                                                                                                    |
| Range                          | TeSys                                                                                                                                                      |
| Product name                   | TeSys K                                                                                                                                                    |
| Device application             | Control                                                                                                                                                    |
| Product or component type      | Contacteur                                                                                                                                                 |
| Utilisation category           | AC-3<br>AC-1<br>AC-4                                                                                                                                       |
| Coil technology                | Built-in bidirectional peak limiting diode suppressor                                                                                                      |
| Poles description              | 3P                                                                                                                                                         |
| Pole contact composition       | 3 NO                                                                                                                                                       |
| [Ie] rated operational current | 20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit<br>9 A at <= 440 V AC AC-3 for power circuit<br>16 A (at <70 °C) at 690 V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | type instantaneous 1 NO                                                                                                                                    |
| Signalling circuit frequency   | <= 400 Hz                                                                                                                                                  |
| Non overlap distance           | 0.5 mm                                                                                                                                                     |

### Complementary

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacteur application         | Motor control<br>Resistive load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Auxiliary contact composition  | 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Control circuit voltage limits | Operational: 0.8...1.15 Uc (at <50 °C)<br>Drop-out: 0.2...0.75 Uc (at <50 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Control circuit type           | AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| [Uc] control circuit voltage   | 230 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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 |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective treatment                        | TC conforming to IEC 60068<br>TC conforming to DIN 50016                                                                                                                                                                                                                 |
| Overvoltage category                        | III                                                                                                                                                                                                                                                                      |
| Product certifications                      | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                       |
| Operating altitude                          | 2000 m without derating                                                                                                                                                                                                                                                  |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power circuit<br>10 A (at 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 |
| 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 - Ith 20 A 50 Hz for power circuit                                                                                                                                                                                                                                |
| Inrush power in VA                          | 30 VA (at 20 °C)                                                                                                                                                                                                                                                         |
| Hold-in power consumption in VA             | 4.5 VA (at 20 °C)                                                                                                                                                                                                                                                        |
| Operating time                              | 10...20 ms coil de-energisation and NO opening<br>10...20 ms coil energisation and NO closing                                                                                                                                                                            |
| Safety reliability level                    | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1                                                                                                     |
| Maximum operating rate                      | 3600 cyc/h                                                                                                                                                                                                                                                               |
| Minimum switching current                   | 5 mA for signalling circuit                                                                                                                                                                                                                                              |
| Minimum switching voltage                   | 17 V for signalling circuit                                                                                                                                                                                                                                              |
| Insulation resistance                       | > 10 MOhm for signalling circuit                                                                                                                                                                                                                                         |
| Height                                      | 58 mm                                                                                                                                                                                                                                                                    |
| Width                                       | 45 mm                                                                                                                                                                                                                                                                    |
| Depth                                       | 57 mm                                                                                                                                                                                                                                                                    |
| Compatibility code                          | LC1K                                                                                                                                                                                                                                                                     |

## Environment

|                  |                                                                                                                                                                                                      |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor power kW   | 4 kW at 480 V AC 50/60 Hz<br>4 kW at 500...600 V AC 50/60 Hz<br>4 kW at 660...690 V AC 50/60 Hz<br>2.2 kW at 220...230 V AC 50/60 Hz<br>4 kW at 380...415 V AC 50/60 Hz<br>4 kW at 440 V AC 50/60 Hz |
| Heat dissipation | 1.3 W                                                                                                                                                                                                |
| 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                                                                                         |

## 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 |