



## Main

|                                |                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| Range of product               | TeSys K                                                                                                      |
| Range                          | TeSys                                                                                                        |
| Product or component type      | Contactor                                                                                                    |
| Device short name              | LP1K                                                                                                         |
| Contactor application          | Resistive load                                                                                               |
| Utilisation category           | AC-1                                                                                                         |
| Poles description              | 4P                                                                                                           |
| Pole contact composition       | 2 NO + 2 NC                                                                                                  |
| [Ie] rated operational current | 20 A (at ≤50 °C) at ≤ 440 V AC AC-1 for power circuit<br>16 A (at ≤70 °C) at 690 V AC AC-1 for power circuit |

## Complementary

|                                             |                                                                                                                                                     |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Control circuit voltage limits              | Operational: 0.8...1.15 Uc (at ≤50 °C)<br>Drop-out: 0.1...0.75 Uc (at ≤50 °C)                                                                       |
| [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 |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                |
| Overvoltage category                        | III                                                                                                                                                 |
| Mounting support                            | Rail<br>Plate                                                                                                                                       |
| 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                                        |
| [Ue] rated operational voltage              | Power circuit: 690 V AC 50/60 Hz                                                                                                                    |
| [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                                                                                                              |

|                                |                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | 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                                                                                                                                                              |
| Average impedance              | 3 mOhm - lth 20 A 50 Hz for power circuit                                                                                                                                                                                      |
| Inrush power in W              | 3 W (at 20 °C)                                                                                                                                                                                                                 |
| Hold-in power consumption in W | 3 W at 20 °C                                                                                                                                                                                                                   |
| Operating time                 | 30...40 ms coil energisation and NO closing<br>10 ms coil de-energisation and NO opening<br>25...35 ms coil energisation and NC opening<br>15 ms coil de-energisation and NC 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                                                           |
| Mechanical durability          | 10 Mcycles                                                                                                                                                                                                                     |
| Maximum operating rate         | 3600 cyc/h                                                                                                                                                                                                                     |
| Height                         | 58 mm                                                                                                                                                                                                                          |
| Width                          | 45 mm                                                                                                                                                                                                                          |
| Depth                          | 57 mm                                                                                                                                                                                                                          |
| Net weight                     | 0.225 kg                                                                                                                                                                                                                       |

## Environment

|                                       |                |
|---------------------------------------|----------------|
| Product certifications                | UL<br>CSA      |
| Ambient air temperature for operation | -25...50 °C    |
| Ambient air temperature for storage   | -50...80 °C    |
| Operating altitude                    | 2000 m without |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| REACH free of SVHC         | Yes                                                                                                                         |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>                                                                            |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

## Contractual warranty

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