



LP1K090045ED3 has not been replaced. Please contact your customer care center for more information.

❗ Discontinued

## 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       | 4 NO                                                                                                 |
| [Ie] rated operational current | 20 A 122 °F (50 °C) ≤ 440 V AC AC-1 power circuit<br>16 A 158 °F (70 °C) 690 V AC AC-1 power circuit |

## Complementary

|                                             |                                                                                                                                                                    |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Coil technology                             | Built-in bidirectional peak limiting diode suppressor                                                                                                              |
| Control circuit voltage limits              | Operational 0.8...1.15 U <sub>c</sub> 122 °F (50 °C)<br>Drop-out 0.1...0.75 U <sub>c</sub> 122 °F (50 °C)                                                          |
| [Ui] rated insulation voltage               | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V CSA C22.2 No 14                                                             |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                               |
| Overvoltage category                        | III                                                                                                                                                                |
| Mounting support                            | Printed circuit boards                                                                                                                                             |
| Flame retardance                            | V1 UL 94<br>Requirement 2 NF F 16-101<br>Requirement 2 NF F 16-102                                                                                                 |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz                                                                                                                                    |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit                                                                                                                                  |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947                                                                                             |
| Rated breaking capacity                     | 110 A 415 V IEC 60947<br>110 A 440 V IEC 60947<br>80 A 500 V IEC 60947<br>110 A 220...230 V IEC 60947<br>110 A 380...400 V IEC 60947<br>70 A 660...690 V IEC 60947 |

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Associated fuse rating         | 25 A gG <= 440 V power circuit<br>25 A aM power circuit                                                                                  |
| Average impedance              | 3 mOhm - lth 20 A 50 Hz power circuit                                                                                                    |
| Inrush power in W              | 3 W 68 °F (20 °C))                                                                                                                       |
| Hold-in power consumption in W | 3 W 68 °F (20 °C)                                                                                                                        |
| Operating time                 | 30...40 ms coil energisation and NO closing<br>10 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          | 10 Mcycles                                                                                                                               |
| Maximum operating rate         | 3600 cyc/h                                                                                                                               |
| Height                         | 2.28 in (58 mm)                                                                                                                          |
| Width                          | 1.77 in (45 mm)                                                                                                                          |
| Depth                          | 2.24 in (57 mm)                                                                                                                          |
| Net weight                     | 0.50 lb(US) (0.225 kg)                                                                                                                   |

## Environment

|                                       |                             |
|---------------------------------------|-----------------------------|
| Product certifications                | UL<br>CSA                   |
| 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 |

## Ordering and shipping details

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22321-CTR,K-LINE,DC,OPEN,NONREV |
| Discount Schedule | I12                             |
| GTIN              | 03389110495591                  |
| Returnability     | No                              |

## Offer Sustainability

|                            |                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------|
| 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. |
| Circularity Profile        | No need of specific recycling operations<br><a href="#">End of Life Information</a>                                    |

## Contractual warranty

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