



LP1K09105BD3 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          | Motor control<br>Resistive load   |
| Utilisation category           | AC-4<br>AC-3<br>AC-1  |
| Poles description              | 3P  |
| Pole contact composition       | 3 NO  |
| [Ie] rated operational current | 20 A 122 °F (50 °C) $\leq$ 440 V AC AC-1 power circuit<br>9 A $\leq$ 440 V AC AC-3 power circuit<br>16 A 158 °F (70 °C) 690 V AC AC-1 power circuit |
| Auxiliary contact composition  | 1 NO  |

## Complementary

|  |   |
|--|---|
| Coil technology                        | Built-in bidirectional peak limiting diode suppressor   |
| Auxiliary contacts type                | Instantaneous 1 NO  |
| 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>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 |
| [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<br>Signalling circuit <= 690 V AC 50/60 Hz   |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit<br>10 A 122 °F (50 °C) signalling circuit  |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947<br>110 A AC signalling 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<br>10 A gG signalling circuit IEC 60947<br>10 A gG signalling circuit VDE 0660                             |
| Average impedance                           | 3 mOhm - Ith 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   |
| Minimum switching current                   | 5 mA signalling circuit  |
| Minimum switching voltage                   | 17 V signalling circuit  |
| Insulation resistance                       | > 10 MOhm signalling circuit   |
| 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              | 03389110496598                  |
| Returnability     | No                              |

## 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 |
|----------|-----------|