

# Product datasheet

Specifications



## TeSys K contactor , 3P ,AC-3, <= 440V, 6A , 1 NC aux, 250V DC coil

LP1K06015UD3

⚠ End-of-service on: 04-Nov-2020

⚠ Discontinued

### Main

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Range Of Product               | TeSys K                                               |
| Range                          | TeSys                                                 |
| Product Or Component Type      | Contactors                                            |
| Device Short Name              | LP1K                                                  |
| Utilisation Category           | AC-4<br>AC-3                                          |
| Coil Technology                | Built-in bidirectional peak limiting diode suppressor |
| Poles Description              | 3P                                                    |
| Pole Contact Composition       | 3 NO                                                  |
| [Ie] Rated Operational Current | 6 A at <= 440 V AC AC-3 for power circuit             |
| [Uc] Control Circuit Voltage   | type instantaneous 1 NC                               |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contactors Application                 | Motor control                                                                                                                                                                                                                                                                                                                                                                      |
| Auxiliary Contact Composition          | 1 NC                                                                                                                                                                                                                                                                                                                                                                               |
| 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>Signalling circuit: 690 V conforming to IEC 60947-4-1<br>Signalling circuit: 690 V conforming to IEC 60947-5-1<br>Signalling circuit: 600 V conforming to UL 508<br>Power circuit: 600 V conforming to CSA C22.2 No 14<br>Signalling circuit: 600 V conforming to CSA C22.2 No 14 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV                                                                                                                                                                                                                                                                                                                                                                               |
| Overvoltage Category                   | III                                                                                                                                                                                                                                                                                                                                                                                |
| Mounting Support                       | Printed circuit boards                                                                                                                                                                                                                                                                                                                                                             |
| 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                                                                                                                                                                                                                                                                                        |
| Product Certifications                 | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                                                                                                                                                                                                                 |

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

|                                             |                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Air Temperature For Operation       | -25...50 °C                                                                                                                                                                                                                                                              |
| Ambient Air Temperature For Storage         | -50...80 °C                                                                                                                                                                                                                                                              |
| Operating Altitude                          | 2000 m without derating                                                                                                                                                                                                                                                  |
| [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 (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                                                                                                                                                                                                                                |
| 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 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                                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                                                                                                                    |
| Net Weight                                  | 0.225 kg                                                                                                                                                                                                                                                                 |
| Compatibility Code                          | LP1K                                                                                                                                                                                                                                                                     |

## Environment

|                                |                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| Inrush Power In W              | 3 W (at 20 °C)                                                                                               |
| Hold-In Power Consumption In W | 3 W at 20 °C                                                                                                 |
| 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 | 18 months |
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