

# Product data sheet

Specifications



## TeSys K contactor , 3P ,AC-3, <= 440V, 12A , 1 NO aux , 220V DC coil

LP1K1210MD3

⚠ Discontinued on: Jul 24, 2022

⚠ Discontinued

### Main

|                                |                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product               | TeSys K                                                                                                                                                     |
| Range                          | TeSys                                                                                                                                                       |
| Product or component type      | Contacteur                                                                                                                                                  |
| Device short name              | LP1K                                                                                                                                                        |
| Utilisation category           | AC-1<br>AC-3<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>12 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                                                                                                                                     |

### Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Contacteur application                 | Resistive load<br>Motor control                                                                                                                                                                                                                                                                                                                                                    |
| Auxiliary contact composition          | 1 NO                                                                                                                                                                                                                                                                                                                                                                               |
| 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                       | Rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                      |
| 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

|                                             |                                                                                                                                                                                       |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product certifications                      | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA                                                                                                                                    |
| Ambient air temperature for operation       | -25...50 °C                                                                                                                                                                           |
| Ambient air temperature for storage         | -50...80 °C                                                                                                                                                                           |
| Operating altitude                          | 2000 m without derating                                                                                                                                                               |
| Tightening torque                           | 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm                                               |
| [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 signalling circuit conforming to IEC 60947<br>144 A AC for power circuit conforming to NF C 63-110<br>144 A AC for power circuit conforming to IEC 60947                 |
| Rated breaking capacity                     | 110 A at 440 V conforming to IEC 60947<br>80 A at 500 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 (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 |