

# Product datasheet

Specifications



## TeSys K - differential thermal overload relays - 0.8...1.2 A - class 10A

LR2K0306

EAN Code: 3389110230420

### Main

|                                     |                                                                                                                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range                               | TeSys                                                                                                                                                                                                   |
| Product name                        | TeSys LRK                                                                                                                                                                                               |
| Product or component type           | Differential thermal overload relay                                                                                                                                                                     |
| Device short name                   | LR2K                                                                                                                                                                                                    |
| Relay application                   | Motor protection                                                                                                                                                                                        |
| Product compatibility               | LC1K<br>LC7K<br>LP4K<br>LP1K                                                                                                                                                                            |
| Network type                        | AC<br>DC                                                                                                                                                                                                |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1                                                                                                                                                                   |
| Thermal protection adjustment range | 0.8...1.2 A                                                                                                                                                                                             |
| [Ui] rated insulation voltage       | Power circuit: 690 V conforming to BS 4941<br>Power circuit: 690 V conforming to IEC 60947<br>Power circuit: 750 V conforming to VDE 0110 group C<br>Power circuit: 600 V conforming to CSA C22.2 No 14 |

### Complementary

|                                             |                                                                                                                              |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Network frequency                           | <= 400 Hz                                                                                                                    |
| Mounting support                            | Under contactor<br>Plate, with specific accessories<br>Rail, with specific accessories                                       |
| Auxiliary contact composition               | 1 NO + 1 NC                                                                                                                  |
| [Ith] conventional free air thermal current | 6 A for signalling circuit                                                                                                   |
| [Ue] rated operational voltage              | <= 690 V for power circuit<br>690 V AC AC-15 for signalling circuit<br>250 V DC DC-13 for signalling circuit                 |
| Associated fuse rating                      | 6 A gG for signalling circuit conforming to VDE 0660<br>6 A gG for signalling circuit conforming to IEC 60947                |
| [Uimp] rated impulse withstand voltage      | 6 kV                                                                                                                         |
| Power dissipation per pole                  | 2 W                                                                                                                          |
| Phase failure sensitivity                   | Yes conforming to IEC 60947-4-1                                                                                              |
| Local signalling                            | Trip indicator (yellow)                                                                                                      |
| Control type                                | Red push-button: trip test function<br>Blue push-button: stop and manual reset<br>selector switch: manual or automatic reset |

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

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Connections - terminals | Screw clamp terminals 1 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 2 cable(s) 1.5...4 mm²solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.75...4 mm²flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm²flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm²flexible with cable end |
| 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<br>1.3 N.m - on screw clamp terminals - with screwdriver pozidriv No 2                                                                                                                                                                                                   |
| Height                  | 58 mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| Width                   | 45 mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| Depth                   | 65 mm                                                                                                                                                                                                                                                                                                                                                                                                            |
| Product weight          | 0.145 kg                                                                                                                                                                                                                                                                                                                                                                                                         |

## Environment

|                                       |                                                                                                                                                                                                                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                             | NF C 63-650<br>IEC 60947<br>BS 4941<br>VDE 0660                                                                                                                                                                                                                                  |
| Product certifications                | UL<br>CSA<br>UKCA                                                                                                                                                                                                                                                                |
| Protective treatment                  | TC conforming to IEC 60068<br>TC conforming to DIN 50016                                                                                                                                                                                                                         |
| IP degree of protection               | IP2X conforming to IEC 60529                                                                                                                                                                                                                                                     |
| Ambient air temperature for operation | -20...55 °C without derating conforming to IEC 60947<br>-30...60 °C with derating conforming to IEC 60947                                                                                                                                                                        |
| Ambient air temperature for storage   | -40...70 °C                                                                                                                                                                                                                                                                      |
| Operating altitude                    | 2000 m without derating                                                                                                                                                                                                                                                          |
| Fire resistance                       | 850 °C conforming to IEC 60695-2-1                                                                                                                                                                                                                                               |
| 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                                                                                                                                                                     |
| Mechanical robustness                 | Shocks NO contact: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks NC contact: 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Vibrations NO contact: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations NC contact: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 7.200 cm  |
| Package 1 Width              | 4.800 cm  |
| Package 1 Length             | 8.500 cm  |
| Package 1 Weight             | 155.000 g |
| Unit Type of Package 2       | S02       |
| Number of Units in Package 2 | 41        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |

|                  |          |
|------------------|----------|
| Package 2 Weight | 6.775 kg |
|------------------|----------|

## Logistical informations

|                   |    |
|-------------------|----|
| Country of origin | CZ |
|-------------------|----|

## 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 >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 6 kg CO2 eq.                                  |
| Carbon footprint of the manufacturing phase [A1 to A3] | 0.9 kg CO2 eq.                                |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 5 kg CO2 eq.                                  |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.4 kg CO2 eq.                                |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                         |
| Packaging without single use plastic   | Yes                                                                         |
| SCIP Number                            | E145d1bc-6ab6-4bb3-beeb-cb7d7952e3f6                                        |
| EU RoHS Directive                      | <a href="#">Compliant</a>                                                   |
| REACH Regulation                       | <a href="#">Free of Substances of Very High Concern above the threshold</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                                 |                                                                                                                                                                                                                 |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in %   | 42                                                                                                                                                                                                              |
| End of life manual availability | <a href="#">End of Life Information</a>                                                                                                                                                                         |
| Take-back                       | No                                                                                                                                                                                                              |
| WEEE Label                      |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Offer Marketing Illustration

Product benefits / Features

### TeSys K

Thermal overload relays



**Reliable**

With its integrated manual-automatic reset and simple installation, model LR2K thermal overload relays are very reliable and cover the whole range of motor ratings



**Optimized Protection**

Designed to protect AC circuits and motors against overloads, is simple to select and install at an optimized budget



**Compact Power**

They can be combined with TeSys k contactors to form an extremely compact starter.



Offer Marketing Illustration

Product benefits / Features

A black TeSys K LR2K0301 motor starter is shown against a green circular background. The device has four orange terminal screws on top, a red 'TEST' button, a green 'STOP/RESET' button, and a blue 'TeSys' button. It features three screw terminals at the bottom labeled '97NO', '95NC', and '98NO', and a fourth terminal labeled '95NC'. The model number 'LR2K0301' and 'Schneider Electric' logo are visible on the front.

### TeSys K

#### Technical Benefits

- Motor ratings up to 16 A
- Manual or automatic reset
- Prewiring kit available
- Remote electrical reset
- The devices can be combined with TeSys K contactors in a 45 mm wide space to form an extremely compact starter
- The perfect complement to circuit breaker to achieve the best protection: magnetic and thermal protection of a motor-starter
- Spring terminal and screw clamp connectors options are available
- Protection against motor overload, stalling, and loss of phase