



### 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               | LP4K<br>LC1K<br>LC7K<br>LP1K  |
| Network type                        | DC<br>AC  |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 1.8...2.6 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                           | $\leq 400$ 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              | $\leq 690$ 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   |

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   |
| Connections - terminals                | Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> solid<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> flexible without cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> flexible with cable end<br>Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> flexible 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  |
| Height                                 | 58 mm  |
| Width                                  | 45 mm  |
| Depth                                  | 65 mm  |
| Net weight                             | 0.145 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | BS 4941<br>VDE 0660<br>IEC 60947<br>NF C 63-650  |
| Product certifications                | CSA<br>UL  |
| 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 Weight             | 157 g  |
| Package 1 Height             | 4.8 cm |
| Package 1 width              | 7.2 cm |
| Package 1 Length             | 8.5 cm |
| Unit Type of Package 2       | S02    |
| Number of Units in Package 2 | 41     |
| Package 2 Weight             | 6.8 kg |
| Package 2 Height             | 15 cm  |
| Package 2 width              | 30 cm  |
| Package 2 Length             | 40 cm  |
| Unit Type of Package 3       | P06    |

|                              |            |
|------------------------------|------------|
| Number of Units in Package 3 | 656        |
| Package 3 Weight             | 118.772 kg |
| Package 3 Height             | 80 cm      |
| Package 3 width              | 80 cm      |
| Package 3 Length             | 60 cm      |

### 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>   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

### Contractual warranty

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