



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               | LC7K<br>LP1K<br>LP4K<br>LC1K                                                                                                                                                                            |
| Network type                        | DC<br>AC                                                                                                                                                                                                |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1                                                                                                                                                                   |
| Thermal protection adjustment range | 3.7...5.5 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                                                             |

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

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                        | 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                             | IEC 60947<br>VDE 0660<br>BS 4941<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             | 160.1 g |
| Package 1 Height             | 5 cm    |
| Package 1 width              | 7 cm    |
| Package 1 Length             | 8 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 |

### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 12 months |
|----------|-----------|