

## Product data sheet

### Characteristics

# LR2K0307

## TeSys K - differential thermal overload relays - 1.2...1.8 A - class 10A



### 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>LP1K<br>LP4K<br>LC7K  |
| Network type                        | AC<br>DC  |
| Thermal overload class              | Class 10A conforming to IEC 60947-4-1   |
| Thermal protection adjustment range | 1.2...1.8 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  |
| [I <sub>th</sub> ] conventional free air thermal current | 6 A for signalling circuit   |
| [U <sub>e</sub> ] 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  |
| [U <sub>imp</sub> ] 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>NF C 63-650<br>VDE 0660<br>BS 4941  |
| Product certifications                | UL<br>CSA  |
| 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             | 155.8 g    |
| Package 1 Height             | 4.9 cm     |
| Package 1 width              | 7.1 cm     |
| Package 1 Length             | 8.2 cm     |
| Unit Type of Package 2       | S02        |
| Number of Units in Package 2 | 41         |
| Package 2 Weight             | 6.647 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             | 114.349 kg |
| Package 3 Height             | 75 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  <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>        |
| 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

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| Warranty | 12 months |
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