



### Main

|  |   |
|--|---|
| Commercial Status                          | Commercialised  |
| Range of product                           | TeSys K thermal overload relays   |
| Product or component type                  | Differential thermal overload relay   |
| Device short name                          | LR2K  |
| Relay application                          | Motor protection  |
| Product compatibility                      | LC1K<br>LP1K<br>LC7K<br>LP4K  |
| Network type                               | AC<br>DC  |
| Overload tripping class                    | Class 10A conforming to IEC 60947-4-1   |
| Thermal protection adjustment range        | 0.8...1.2 A   |
| [U <sub>i</sub> ] rated insulation voltage | 600 V power circuit conforming to CSA C22.2 No 14<br>750 V power circuit conforming to VDE 0110 group C<br>690 V power circuit conforming to IEC 60947<br>690 V power circuit conforming to BS 4941 |

### Complementary

|  |  |
|--|--|
| Network frequency  | <= 400 Hz  |
| Mounting support   | Under contactor  |
| 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              | 250 V DC DC-13 for signalling circuit<br>690 V AC AC-15 for signalling circuit<br><= 690 V for power circuit   |
| Associated fuse rating                                   | 6 A gG for signalling circuit conforming to IEC 60947<br>6 A gG for signalling circuit conforming to VDE 0660  |
| [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   | Selector switch manual or automatic for reset mode<br>Blue pushbutton stop and manual reset<br>Red pushbutton trip test function   |
| Connections - terminals                                  | Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end<br>Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end<br>Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid<br>Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid |
| Tightening torque  | 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 Phillips No 2   |
| Height   | 58 mm  |
| Width  | 45 mm  |
| Depth  | 65 mm  |
| Product weight   | 0.145 kg   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | BS 4941<br>IEC 60947<br>NF C 63-650<br>VDE 0660  |
| Product certifications                | CSA<br>UL  |
| Protective treatment                  | TC conforming to DIN 50016<br>TC conforming to IEC 60068   |
| IP degree of protection               | IP2x conforming to IEC 60529   |
| Ambient air temperature for operation | -30...60 °C with derating conforming to IEC 60947<br>-20...55 °C without 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                      | Requirement 2 conforming to NF F 16-102<br>Requirement 2 conforming to NF F 16-101<br>V1 conforming to UL 94   |
| Mechanical robustness                 | Vibrations NC contact 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Vibrations NO contact 2 Gn, 5...300 Hz conforming to IEC 60068-2-6<br>Shocks NC contact 10 Gn for 11 ms conforming to IEC 60068-2-27<br>Shocks NO contact 10 Gn for 11 ms conforming to IEC 60068-2-27 |