## Product data sheet Characteristics

## LR9F7375

TeSys LRF - electronic thermal overload relay - 200...330 A - class 10





## Main

| IVIAIII                             |                                    | 2              |
|-------------------------------------|------------------------------------|----------------|
| Range                               | TeSys                              | - t            |
| Product name                        | TeSys LRF                          | _ <del>\</del> |
| Device short name                   | LR9F                               | _ Sid          |
| Product or component type           | Electronic thermal overload relay  | ¥              |
| Relay application                   | Motor protection                   | _ \_<br>  }    |
| Product compatibility               | LC1F225LC1F500                     | <u></u>        |
| Network type                        | AC                                 |                |
| Thermal overload class              | Class 10 conforming to IEC 60947-4 | litabi         |
| Thermal protection adjustment range | 200330 A                           | - 0            |
|                                     |                                    |                |

## Complementary

| Network frequency                           | 50/60 Hz  | -700           |
|---|---|----------------|
| Supply voltage limits                       | 1732 V  | - 4            |
| Mounting support                            | Direct on contactor Plate   | - \$           |
| Tripping threshold                          | 1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1                         | _ 0            |
| Surge withstand                             | 4 kV conforming to IEC 61000-4-5  | -tet           |
| Contacts type and composition               | 1 NO + 1 NC   | - it           |
| [lth] conventional free air thermal current | 5 A for control circuit   | _ a a ba       |
| [Ue] rated operational voltage              | 1000 V AC 50/60 Hz for power circuit conforming to VDE 0110 group C           | - Prestu       |
| [Ui] rated insulation voltage               | Power circuit: 1000 V AC conforming to IEC 60947-4                            |                |
| [Uimp] rated impulse withstand voltage      | 8 kV IEC 60947-1  | - <u>.</u>     |
| Phase failure sensitivity                   | Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1                          | entat          |
| Reset                                       | Manual reset on front relay   | _              |
| Control type                                | Dial white full-load current adjustment Test button red Push-button red reset | laimer: This d |

|                                       | Push-button stop  |
|---------------------------------------|---|
| Local signalling                      | Trip indicator  |
| Temperature compensation              | -2070 °C  |
| Current consumption                   | <= 5 mA no-load   |
| Switching capacity for alarm          | 0150 mA   |
| Maximum voltage drop                  | <2.5 V closed state   |
| Connections - terminals               | Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: flexible - with cable end   |
|                                       | Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 cable 0.754 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 11.5 mm² - cable stiffness: flexible - with cable end |
|                                       | Control circuit: screw clamp terminals 2 cable 12.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid   |
|                                       | Power circuit: lugs-ring terminals M10  |
| Tightening torque                     | Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 35 N.m on screw clamp terminals  |
| Height                                | 136.8 mm  |
| Width                                 | 150 mm  |
| Depth                                 | 127.6 mm  |
| Net weight                            | 2.32 kg   |
|                                       |   |
| Environment                           |   |
| Standards                             | VDE 0660<br>IEC 60947-4-1<br>EN 60947-4-1<br>IEC 60255-17<br>IEC 60255-8  |
| Product certifications                | UL<br>CSA   |
| Protective treatment                  | TH  |
| IP degree of protection               | IP20 conforming to IEC 60529<br>IP20 conforming to VDE 0106   |
| Ambient air temperature for operation | -2055 °C conforming to IEC 60255-8  |
| Ambient air temperature for storage   | -4085 °C  |
| Operating altitude                    | <= 2000 m without derating  |
| Fire resistance                       | 850 °C conforming to IEC 60695-2-1  |
| Mechanical robustness                 | Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7<br>Vibrations 5300 Hz: 2 Gn conforming to IEC 60068-2-6   |
|                                       |   |

| Pac | kina | l Inite |
|-----|------|---------|

Electromagnetic compatibility

| racking units                |          |  |
|------------------------------|----------|--|
| Unit Type of Package 1       | PCE      |  |
| Number of Units in Package 1 | 1        |  |
| Package 1 Weight             | 1.887 kg |  |
| Package 1 Height             | 18 cm    |  |
| Package 1 width              | 19.5 cm  |  |
| Package 1 Length             | 20 cm    |  |
| Unit Type of Package 2       | P06      |  |
| Number of Units in Package 2 | 36       |  |
| Package 2 Weight             | 80.93 kg |  |
| Package 2 Height             | 80 cm    |  |
| Package 2 width              | 80 cm    |  |
|                              |          |  |

Resistance to electrostatic discharge: 6 kV in indirect mode conforming to IEC 61000-4-2

Radiated radio-frequency electromagnetic field immunity test: 10 V/m conforming to IEC 61000-4-3 Fast transients immunity test: 2 kV conforming to IEC 61000-4-4

Resistance to electrostatic discharge: 8 kV in air conforming to IEC 61000-4-2

| Package 2 Length           | 60 cm   |
|----------------------------|---|
| Offer Sustainability       |   |
| Sustainable offer status   | Green Premium product   |
| REACh Regulation           | REACh Declaration   |
| EU RoHS Directive          | Compliant EU RoHS Declaration   |
| Mercury free               | Yes   |
| RoHS exemption information | Yes   |
| China RoHS Regulation      | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information  |
| Environmental Disclosure   | Product Environmental Profile   |
| Circularity Profile        | End of Life Information   |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| PVC free                   | Yes   |
| 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 www.P65Warnings.ca.gov |
| Contractual warranty       |   |
| Warranty                   | 18 months   |