# Product data sheet
## Characteristics

# LR9F5367
TeSys LRF - electronic thermal overload relay - 60...100 A - class 10



## Commercial status
End of Commercialisation : DEC 30, 2024

⚠ End of Commercialisation

## Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys LRF |
| Device short name | LR9F |
| Product or component type | Electronic thermal overload relay |
| Relay application | Motor protection |
| Product compatibility | LC1F115...LC1F185 |
| Network type | AC |
| Thermal overload class | Class 10 conforming to IEC 60947-4 |
| Thermal protection adjustment range | 60…100 A |

## Complementary

| | |
|---|---|
| Network frequency | 50/60 Hz |
| Mounting support | Direct on contactor<br>Plate |
| Tripping threshold | 1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1 |
| Surge withstand | 4 KV conforming to IEC 61000-4-5 |
| Contacts type and composition | 1 NO + 1 NC |
| [Ith] conventional free air thermal current | 5 A for control circuit |
| [Ue] rated operational voltage | 1000 V AC 50/60 Hz for power circuit conforming to VDE 0110 group C |
| [Ui] rated insulation voltage | Power circuit: 1000 V AC conforming to IEC 60947-4 |
| [Uimp] rated impulse withstand voltage | 8 KV conforming to IEC 60947-1 |
| Phase failure sensitivity | Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1 |
| Reset | Manual reset on front relay |
| Control type | Dial white full-load current adjustment<br>Test button red<br>Push-button red reset<br>Push-button stop |
| Local signalling | Trip indicator |
| Temperature compensation | -20…70 °C |
| Current consumption | <= 5 mA no-load |
| Switching capacity in mA | 0...150 mA |
| Maximum voltage drop | <2.5 V closed state |

| | |
|---|---|
| Connections - terminals | Control circuit: screw clamp terminals 1 cable 0.75…2.5 mm² - cable stiffness: flexible - with cable<br>Control circuit: screw clamp terminals 1 cable 0.75…2.5 mm² - cable stiffness: solid<br>Control circuit: screw clamp terminals 1 cable 0.75…4 mm² - cable stiffness: flexible - without cabl<br>Control circuit: screw clamp terminals 2 cable 1…1.5 mm² - cable stiffness: flexible - with cable en<br>Control circuit: screw clamp terminals 2 cable 1…2.5 mm² - cable stiffness: flexible - without cable<br>Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid<br>Power circuit: lugs-ring terminals M8 |
| Tightening torque | Control circuit: 1.2 N.m on screw clamp terminals<br>Power circuit: 18 N.m on screw clamp terminals |
| Height | 96 Mm |
| Width | 115 Mm |
| Depth | 123.5 Mm |
| Net weight | 0.9 Kg |

## Environment

| | |
|---|---|
| Standards | IEC 60255-8<br>VDE 0660<br>IEC 60255-17<br>IEC 60947-4-1<br>EN 60947-4-1 |
| Product certifications | UL[RETURN]CSA[RETURN]UKCA |
| Protective treatment | TH |
| IP degree of protection | IP20 conforming to IEC 60529<br>IP20 conforming to VDE 0106 |
| Ambient air temperature for operation | -20…55 °C conforming to IEC 60255-8 |
| Ambient air temperature for storage | -40…85 °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 5...300 Hz: 2 GN conforming to IEC 60068-2-6 |
| Dielectric strength | 6 KV 50 Hz conforming to IEC 255-5 |
| Electromagnetic compatibility | Resistance to electrostatic discharge: 6 kV in indirect mode conforming to IEC 61000-4-2<br>Resistance to electrostatic discharge: 8 kV in air conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test: 10 V/m conforming to IEC 61000-4-<br>Fast transients immunity test: 2 kV conforming to IEC 61000-4-4 |

## Packing Units

| | |
|---|---|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 13.000 Cm |
| Package 1 Width | 16.000 Cm |
| Package 1 Length | 15.000 Cm |
| Package 1 Weight | 879.000 G |
| Unit Type of Package 2 | S04 |
| Number of Units in Package 2 | 12 |
| Package 2 Height | 30.000 Cm |
| Package 2 Width | 40.000 Cm |
| Package 2 Length | 60.000 Cm |
| Package 2 Weight | 11.391 Kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 48 |
| Package 3 Height | 75.000 Cm |
| Package 3 Width | 60.000 Cm |
| Package 3 Length | 80.000 Cm |
| Package 3 Weight | 55.604 Kg |

## Offer Sustainability

| | |
|---|---|
| Recyclability potential, in % | 92 |
| Total lifecycle Carbon footprint | 133 kg CO2 eq. |
| Carbon footprint of the manufacturing phase [A1 to A3] | 4.373067856057913 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 4 kg CO2 eq. |
| Carbon footprint of the distribution phase [A4] | 0.5985198819621839 |
| Carbon footprint of the distribution phase [A4] | 0.6 kg CO2 eq. |
| Carbon footprint of the installation phase [A5] | 0.11462867527126852 |
| Carbon footprint of the installation phase [A5] | 0.1 kg CO2 eq. |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 126.69793890788517 |
| Carbon footprint of the use phase [B2, B3, B4, B6] | 127 kg CO2 eq. |
| Mercury free | Yes |
| Sustainable packaging | No |
| Carbon footprint of the end-of-life phase [C1 to C4] | 1.664811934965841 |
| Carbon footprint of the end-of-life phase [C1 to C4] | 2 kg CO2 eq. |
| Environmental Disclosure | Product Environmental Profile |
| Total lifecycle Carbon footprint | 133 |
| Packaging made with recycled cardboard | No |
| Packaging without single use plastic | No |
| SCIP Number | D5a17874-1166-4927-b008-33d15e304a41 |
| EU RoHS Directive | Compliant By Exemption |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr |
| PVC free | Yes |
| End of life manual availability | End Of Life Information |
| Take-back | No |
| WEEE Label | The product must be disposed on European Union markets following specific waste collection a |

## Contractual warranty

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|---|---|
| Warranty (in months) | 18 |

**Product Life Status :** End of commercialisation

## LR9F5367 may be replaced by any of the following products:



LR9G115

Electronic thermal overload relay,TeSys Giga,28-115 A,class 5E-30E,push-in control connection

Qty 1

Substitution date: |