

Product data sheet

Specifications



TeSys LRF - electronic thermal overload relay - 90...150 A - class 10

LR9F5369

⚠ Discontinued on: Jun 15, 2023

⚠ Discontinued

Product availability: Stock - Normally stocked in distribution facility

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 IEC 60947-4 |
| Thermal Protection Adjustment Range | 90...150 A |

Complementary

| | |
|---|---|
| Network Frequency | 50/60 Hz |
| Mounting Support | Direct on contactor Plate |
| Tripping Threshold | 1.12 +/- 0.06 In tripping IEC 60947-4-1 |
| Surge Withstand | 4 kV IEC 61000-4-5 |
| Contacts Type And Composition | 1 NO + 1 NC |
| [Ith] Conventional Free Air Thermal Current | 5 A control circuit |
| [Ue] Rated Operational Voltage | 1000 V AC 50/60 Hz power circuit VDE 0110 group C |
| [Ui] Rated Insulation Voltage | Power circuit 1000 V AC IEC 60947-4 |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV IEC 60947-1 |
| Phase Failure Sensitivity | Tripping in 4 s +/- 20 % IEC 60947-4-1 |
| Reset | Manual reset on front relay |
| Control Type | Dial White full-load current adjustment Test button Red Push-button Red reset Push-button stop |
| Local Signalling | Trip indicator |
| Temperature Compensation | -4...158 °F (-20...70 °C) |
| Current Consumption | <= 5 mA no-load |
| Switching Capacity For Alarm | 0...150 mA |
| Maximum Voltage Drop | <2.5 V closed state |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

| | |
|--------------------------------|--|
| Connections - Terminals | Control circuit screw clamp terminals 1 0.00...0.00 in ² (0.75...2.5 mm ²) flexible - with cable end Control circuit screw clamp terminals 1 0.00...0.00 in ² (0.75...2.5 mm ²) solid Control circuit screw clamp terminals 1 0.00...0.01 in ² (0.75...4 mm ²) flexible - without cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...1.5 mm ²) flexible - with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) flexible - without cable end Control circuit screw clamp terminals 2 0.00 in ² (1 mm ²) solid Power circuit lugs-ring terminals M8 |
| Tightening Torque | Control circuit 1.2 N.m screw clamp terminals Power circuit 18 N.m screw clamp terminals |
| Height | 3.78 in (96 mm) |
| Width | 4.53 in (115 mm) |
| Depth | 4.86 in (123.5 mm) |
| Net Weight | 1.95 lb(US) (0.885 kg) |

Environment

| | |
|--|---|
| Standards | VDE 0660 IEC 60255-17 IEC 60947-4-1 IEC 60255-8 EN 60947-4-1 |
| Product Certifications | UL CSA UKCA |
| Protective Treatment | TH |
| Ip Degree Of Protection | IP20 conforming to IEC 60529 IP20 conforming to VDE 0106 |
| Ambient Air Temperature For Operation | -4...131 °F (-20...55 °C) IEC 60255-8 |
| Ambient Air Temperature For Storage | -40...185 °F (-40...85 °C) |
| Operating Altitude | <= 6561.68 ft (2000 m) without derating |
| Fire Resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Mechanical Robustness | Shocks 13 Gn for 11 ms IEC 60068-2-7 Vibrations 5...300 Hz 2 GN IEC 60068-2-6 |
| Dielectric Strength | 6 kV 50 Hz IEC 255-5 |
| Electromagnetic Compatibility | Resistance to electrostatic discharge 6 kV in indirect mode IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in air IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test 10 V/m IEC 61000-4-3 Fast transients immunity test 2 kV IEC 61000-4-4 |

Ordering and shipping details

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|--------------------------|---------------|
| Category | US10I1222334 |
| Discount Schedule | 0112 |
| Gtin | 3389110566000 |
| Returnability | Yes |
| Country Of Origin | US |

Packing Units

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|-------------------------------------|-----|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |

| | |
|-------------------------------------|---------------------------|
| Package 1 Height | 5.91 in (15.000 cm) |
| Package 1 Width | 6.30 in (16.000 cm) |
| Package 1 Length | 5.35 in (13.600 cm) |
| Package 1 Weight | 30.55 oz (866.000 g) |
| Unit Type Of Package 2 | S04 |
| Number Of Units In Package 2 | 12 |
| Package 2 Height | 11.81 in (30.000 cm) |
| Package 2 Width | 15.75 in (40.000 cm) |
| Package 2 Length | 23.62 in (60.000 cm) |
| Package 2 Weight | 24.91 lb(US) (11.300 kg) |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 48 |
| Package 3 Height | 29.53 in (75.000 cm) |
| Package 3 Width | 23.62 in (60.000 cm) |
| Package 3 Length | 31.50 in (80.000 cm) |
| Package 3 Weight | 125.65 lb(US) (56.996 kg) |

Contractual warranty

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|-----------------|-----------|
| Warranty | 18 months |
|-----------------|-----------|

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)


[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

 Mercury Free

 Rohs Exemption Information Yes

 Pvc Free

Certifications & Standards

Reach Regulation

[REACH Declaration](#)

Eu Rohs Directive

Compliant with Exemptions

China Rohs Regulation

[China RoHS declaration](#)

Product out of China RoHS scope. Substance declaration for your information.

Environmental Disclosure

[Product Environmental Profile](#)

Weee

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Circularity Profile

[End of Life Information](#)

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