

# Product data sheet

Specifications



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

LR9F5367

⚠ Discontinued on: Jun 15, 2023

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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	60...100 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.

<b>Connections - Terminals</b>	Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) flexible - with cable end Control circuit screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.75...2.5 mm <sup>2</sup> ) solid Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) flexible - without cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...1.5 mm <sup>2</sup> ) flexible - with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible - without cable end Control circuit screw clamp terminals 2 0.00 in <sup>2</sup> (1 mm <sup>2</sup> ) solid Power circuit lugs-ring terminals M8
<b>Tightening Torque</b>	Control circuit 1.2 N.m screw clamp terminals Power circuit 18 N.m screw clamp terminals
<b>Height</b>	3.78 in (96 mm)
<b>Width</b>	4.53 in (115 mm)
<b>Depth</b>	4.86 in (123.5 mm)
<b>Net Weight</b>	1.98 lb(US) (0.9 kg)

## Environment

<b>Standards</b>	IEC 60255-8 VDE 0660 IEC 60255-17 IEC 60947-4-1 EN 60947-4-1
<b>Product Certifications</b>	UL CSA UKCA
<b>Protective Treatment</b>	TH
<b>Ip Degree Of Protection</b>	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106
<b>Ambient Air Temperature For Operation</b>	-4...131 °F (-20...55 °C) IEC 60255-8
<b>Ambient Air Temperature For Storage</b>	-40...185 °F (-40...85 °C)
<b>Operating Altitude</b>	<= 6561.68 ft (2000 m) without derating
<b>Fire Resistance</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Mechanical Robustness</b>	Shocks 13 Gn for 11 ms IEC 60068-2-7 Vibrations 5...300 Hz 2 GN IEC 60068-2-6
<b>Dielectric Strength</b>	6 kV 50 Hz IEC 255-5
<b>Electromagnetic Compatibility</b>	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

<b>Category</b>	US10I1222334
<b>Discount Schedule</b>	0112
<b>Gtin</b>	3389110565997
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	US

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1

<b>Package 1 Height</b>	5.12 in (13.000 cm)
<b>Package 1 Width</b>	6.30 in (16.000 cm)
<b>Package 1 Length</b>	5.91 in (15.000 cm)
<b>Package 1 Weight</b>	31.01 oz (879.000 g)
<b>Unit Type Of Package 2</b>	S04
<b>Number Of Units In Package 2</b>	12
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	15.75 in (40.000 cm)
<b>Package 2 Length</b>	23.62 in (60.000 cm)
<b>Package 2 Weight</b>	25.11 lb(US) (11.391 kg)
<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	48
<b>Package 3 Height</b>	29.53 in (75.000 cm)
<b>Package 3 Width</b>	23.62 in (60.000 cm)
<b>Package 3 Length</b>	31.50 in (80.000 cm)
<b>Package 3 Weight</b>	122.59 lb(US) (55.604 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

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[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](http://www.P65Warnings.ca.gov)