

Product data sheet

Specifications



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

LR9F5369

⚠ 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	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
[I _{th}] conventional free air thermal current	5 A control circuit
[U _e] rated operational voltage	1000 V AC 50/60 Hz power circuit VDE 0110 group C
[U _i] rated insulation voltage	Power circuit 1000 V AC IEC 60947-4
[U _{imp}] 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	-4.0000000000...158.0000000000 °F (-20...70 °C)
Current consumption	<= 5 mA no-load
switching capacity for alarm	0...150 mA

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

Maximum voltage drop	<2.5 V closed state
Connections - terminals	Control circuit screw clamp terminals 1 0.001...0.004 in ² (0.75...2.5 mm ²) flexible - with cable end Control circuit screw clamp terminals 1 0.001...0.004 in ² (0.75...2.5 mm ²) solid Control circuit screw clamp terminals 1 0.001...0.006 in ² (0.75...4 mm ²) flexible - without cable end Control circuit screw clamp terminals 2 0.002...0.002 in ² (1...1.5 mm ²) flexible - with cable end Control circuit screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) flexible - without cable end Control circuit screw clamp terminals 2 0.002 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	3.8 in (96 mm)
Width	4.5 in (115 mm)
Depth	4.9 in (123.5 mm)
Net Weight	1.951 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	-4.0000000000...131.0000000000 °F (-20...55 °C) IEC 60255-8
Ambient Air Temperature for Storage	-40.0000000000...185.0000000000 °F (-40...85 °C)
Operating altitude	<= 6561.68 ft (2000 m) without derating
Fire resistance	1562.0000000000 °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

Category	US10I1222334
Discount Schedule	0112
GTIN	3389110566000
Returnability	Yes
Country of origin	US

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	5.906 in (15.000 cm)
Package 1 Width	6.299 in (16.000 cm)
Package 1 Length	5.354 in (13.600 cm)
Package 1 Weight	30.547 oz (866.000 g)
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	15.748 in (40.000 cm)
Package 2 Length	23.622 in (60.000 cm)
Package 2 Weight	24.912 lb(US) (11.300 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	125.655 lb(US) (56.996 kg)

Contractual warranty

Warranty	18 months
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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.

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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

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