

Product data sheet

Specifications



TeSys LRF - electronic thermal overload relay - 132...220 A - class 10

LR9F5371

⚠ 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	LC1F185...LC1F265
Network type	CA
Thermal overload class	Class 10 IEC 60947-4
Thermal protection adjustment range	132...220 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...158 °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 M10
Tightening torque	Control circuit 1.2 N.m screw clamp terminals Power circuit 35 N.m screw clamp terminals
Height	4.0 in (101 mm)
Width	4.5 in (115 mm)
Depth	4.9 in (123.5 mm)
Net Weight	2.09 lb(US) (0.95 kg)

Environment

Standards	IEC 60255-17 IEC 60947-4-1 IEC 60255-8 VDE 0660 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

Category	US10I1222334
Discount Schedule	0112
GTIN	3389110566017
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
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Number of Units in Package 1	1
Package 1 Height	5.91 in (15.000 cm)
Package 1 Width	6.50 in (16.500 cm)
Package 1 Length	5.12 in (13.000 cm)
Package 1 Weight	2.282 lb(US) (1.035 kg)
Unit Type of Package 2	S04
Number of Units in Package 2	11
Package 2 Height	11.81 in (30 cm)
Package 2 Width	15.75 in (40 cm)
Package 2 Length	23.62 in (60 cm)
Package 2 Weight	26.522 lb(US) (12.030 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	44
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	130.179 lb(US) (59.048 kg)

Contractual warranty

Warranty	18 months
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 133

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number D5a17874-1166-4927-b008-33d15e304a41

REACH Regulation [REACH Declaration](#)

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**

PVC free Yes

Use Again

Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

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