

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

LR9F5369

Discontinued on: Jun 15, 2023

① 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	LC1F115LC1F185	
network type	AC	
Thermal overload class	Class 10 IEC 60947-4	
Thermal protection adjustment range	90150 A	

Complementary

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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	-4158 °F (-2070 °C)	
Current consumption	<= 5 mA no-load	
switching capacity for alarm	0150 mA	

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

<2.5 V closed state	
Control circuit screw clamp terminals 1 0.0010.004 in² (0.752.5 mm²) flexible - with cable end	
Control circuit screw clamp terminals 1 0.0010.004 in ² (0.752.5 mm ²) solid	
Control circuit screw clamp terminals 1 0.0010.006 in² (0.754 mm²) flexible - without cable end	
Control circuit screw clamp terminals 2 0.0020.002 in² (11.5 mm²) flexible - with cable end	
Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²) flexible - without cable end	
Control circuit screw clamp terminals 2 0.002 in ² (1 mm ²) solid	
Power circuit lugs-ring terminals M8	
Control circuit 1.2 N.m screw clamp terminals	
Power circuit 18 N.m screw clamp terminals	
3.8 in (96 mm)	
4.5 in (115 mm)	
4.9 in (123.5 mm)	
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
	LN 000+7 + 1
Product Certifications	UL
	CSA
	UKCA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
	IP20 conforming to VDE 0106
	11 20 0011011111119 to VDE 0100
Ambient air temperature for	-4131 °F (-2055 °C) IEC 60255-8
operation	
Ambient Air Temperature for	-40185 °F (-4085 °C)
Storage	
Operating altitude	<= 6561.68 ft (2000 m) without derating
	5
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Mechanical robustness	Shocks13 Gn for 11 ms IEC 60068-2-7
	Vibrations 5300 Hz2 GN IEC 60068-2-6
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Dielectric strength	6 kV 50 Hz IEC 255-5
Electromagnetic compatibility	Resistance to electrostatic discharge 6 kV in indirect mode IEC 61000-4-2
Licetioniagnetic compatibility	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
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	Fast transients immunity test 2 kV IEC 61000-4-4

Ordering and shipping details

Category	US10l1222334	
Discount Schedule	0112	
GTIN	3389110566000	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE

1 5.91 in (15.000 cm)	
5.91 in (15.000 cm)	
5.91 in (15.000 cm)	
6.30 in (16.000 cm)	
5.35 in (13.600 cm)	
30.547 oz (866.000 g)	
S04	
12	
11.81 in (30.000 cm)	
15.75 in (40.000 cm)	
23.62 in (60.000 cm)	
24.912 lb(US) (11.300 kg)	
P06	
48	
29.53 in (75.000 cm)	
23.62 in (60.000 cm)	
31.50 in (80.000 cm)	
125.655 lb(US) (56.996 kg)	

Contractual warranty

Warranty 18 months



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
SCIP Number	D5a17874-1166-4927-b008-33d15e304a41
China RoHS Regulation	China RoHS 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
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Take-back	No