# Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications



(!) Discontinued

# TeSys LRF - electronic thermal overload relay - 48...80 A - class 10

LR9F5363

Discontinued on: Jun 30, 2024

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	4880 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	-4158 °F (-2070 °C)	
Current consumption	<= 5 mA no-load	
switching capacity for alarm	0150 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 0.0010.004 in² (0.752.5 mm²) flexible - with cable end  Control circuit screw clamp terminals 1 0.0010.004 in² (0.752.5 mm²) 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 in² (1 mm²) 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	2.0 lb(US) (0.9 kg)

### **Environment**

Standards	IEC 60255-17 IEC 60255-8 VDE 0660 EN 60947-4-1 IEC 60947-4-1	
Product Certifications	CSA UL UKCA	
Protective treatment	тн	
IP degree of protection	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106	
Ambient air temperature for operation	-4131 °F (-2055 °C) IEC 60255-8	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	
Operating altitude	<= 6561.68 ft (2000 m) without derating	
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	
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	US10l1222334	
Discount Schedule	0112	
GTIN	3389110565980	
Returnability	Yes	
Country of origin	FR	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	5.12 in (13.0 cm)
Package 1 Width	6.02 in (15.3 cm)
Package 1 Length	6.22 in (15.8 cm)
Package 1 Weight	31.0 oz (878.0 g)
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	11.81 in (30.0 cm)
Package 2 Width	15.75 in (40.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	24.723 lb(US) (11.214 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**

EU RoHS Directive	Compliant with Exemptions
SCIP Number	D5a17874-1166-4927-b008-33d15e304a41
REACh Regulation	REACh Declaration
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.