Product data sheet

Specifications



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

LR9F5363

Discontinued on: Jun 30, 2024

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	LC1F115...LC1F185
Network type	AC
Thermal overload class	Class 10 IEC 60947-4
Thermal protection adjustment range	48…80 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.

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

Connections - terminals	Control circuit screw clamp terminals 1 0.001…0.004 in² (0.75…2.5 mm²) flexible - with cable end Control circuit screw clamp terminals 1 0.001…0.004 in² (0.75…2.5 mm²) solid Control circuit screw clamp terminals 1 0.001…0.006 in² (0.75…4 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.002…0.002 in² (1…1.5 mm²) flexible - with cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 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)
Product 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	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	Shocks13 Gn for 11 ms IEC 60068-2-7 Vibrations 5...300 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	US1CTR521259
Discount Schedule	CTR5
GTIN	3389110565980
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	5.1 in (13.0 cm)
Package 1 Width	6.02 in (15.3 cm)
Package 1 Length	6.2 in (15.8 cm)
Package weight(Lbs)	31.0 oz (878.0 g)
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	11.8 in (30.0 cm)
Package 2 Width	15.7 in (40.0 cm)
Package 2 Length	23.6 in (60.0 cm)
Package 2 Weight	24.723 lb(US) (11.214 kg)

Contractual warranty

Warranty (in months)	18

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

Total lifecycle Carbon footprint	**133 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**4 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.6 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**127 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

SCIP Number	**D5a17874-1166-4927-b008-33d15e304a41**
EU RoHS Directive	**Compliant By Exemption**
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 Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**92**
Circularity Profile	**End of Life Information**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.**