

Product data sheet

Specifications



TeSys LRF - electronic thermal overload relay - 300...500 A - class 10

LR9F7379

⚠ 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	LC1F225...LC1F500
Network type	AC
Thermal overload class	Class 10 IEC 60947-4
Thermal protection adjustment range	300...500 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
[Uiimp] 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	5.4 in (136.8 mm)
Width	5.9 in (150 mm)
Depth	5.02 in (127.6 mm)
Net Weight	5.11 lb(US) (2.32 kg)

Environment

Standards	EN 60947-4-1 VDE 0660 IEC 60255-17 IEC 60947-4-1 IEC 60255-8
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	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	0I12
GTIN	3389110566031
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
Package 1 Height	6.102 in (15.500 cm)
Package 1 Width	6.693 in (17.000 cm)
Package 1 Length	6.693 in (17.000 cm)
Package weight(Lbs)	4.363 lb(US) (1.979 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	179.113 lb(US) (81.244 kg)

Contractual warranty

Warranty (in months)	18
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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)	144
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Use Better

Materials and Substances

EU RoHS Directive	Compliant with Exemptions
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SCIP Number	D5a17874-1166-4927-b008-33d15e304a41
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REACH Regulation	REACH Declaration
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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
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PVC free	Yes
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Use Again

Repack and remanufacture

Circularity Profile	End of Life Information
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WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
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