Product data sheet

Specifications

Green Premium™

TeSys LRF - electronic thermal overload relay - 132...220 A - class 10/20

LR9F71

Discontinued on: Jun 15, 2023

Discontinued

Product availability: Non-Stock - Not 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	AC
Thermal Overload Class	Class 10/20 IEC 60947-4
Thermal Protection Adjustment Range	132…220 A
Signalling Function	Pre-alarm indicator

Complementary

Network Frequency	50/60 Hz
[Us] Rated Supply Voltage	24 V DC alarm circuit
Supply Voltage Limits	17…32 V alarm circuit)
Mounting Support	Direct on contactor Plate
Tripping Threshold	1.05 +/- 0.06 In alarm IEC 60947-4-1 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

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

Control Type	Dial White full-load current adjustment Test button Red Push-button reset Push-button Red stop Selector switch load balancing Selector switch class 10/20
Local Signalling	Trip indicator Alarm
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
Connections - Terminals	Control circuit screw clamp terminals 1 0.00…0.00 in² (0.75…2.5 mm²) flexible - with cable end Control circuit screw clamp terminals 1 0.00…0.00 in² (0.75…2.5 mm²) solid Control circuit screw clamp terminals 1 0.00…0.01 in² (0.75…4 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…1.5 mm²) flexible - with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.00 in² (1 mm²) solid Power circuit lugs-ring terminals M10 Alarm circuit screw clamp terminals 1 0.00…0.00 in² (0.5…1.5 mm²) flexible - without cable end
Tightening Torque	Control circuit 1.2 N.m screw clamp terminals Power circuit 35 N.m screw clamp terminals Alarm circuit 0.45 N.m screw clamp terminals
Height	3.98 in (101 mm)
Width	4.53 in (115 mm)
Depth	4.86 in (123.5 mm)
Net Weight	2.09 lb(US) (0.95 kg)

Environment

Standards	IEC 60947-4-1 IEC 60255-8 IEC 60255-17 VDE 0660 EN 60947-4-1
Product Certifications	UL CSA UKCA
Protective Treatment	TH
Ip Degree Of Protection	IP20 conforming to IEC 60529
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	US10I1222334
Discount Schedule	0I12
Gtin	3389118057555
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.91 in (15.0 cm)
Package 1 Width	6.30 in (16.0 cm)
Package 1 Length	5.12 in (13.0 cm)
Package 1 Weight	2.36 lb(US) (1.072 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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