Product data sheet

Specifications





TeSys LRF - electronic thermal overload relay - 380...630 A - class 20

LR9F7581

(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	LC1F400LC1F630 LC1F800	
Network Type	AC	
Thermal Overload Class	Class 20 IEC 60947-4	
Thermal Protection Adjustment Range	380630 A	
Signalling Function	Pre-alarm indicator	

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	
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)	

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

Current Consumption	<= 5 mA no-load	
Switching Capacity For Alarm	0150 mA <2.5 V closed state	
Maximum Voltage Drop		
Connections - Terminals	Control circuit screw clamp terminals 1 0.000.00 in ² (0.752.5 mm ²) flexible - with cable end	
	Control circuit screw clamp terminals 1 0.000.00 in ² (0.752.5 mm ²) solid	
	Control circuit screw clamp terminals 1 0.000.01 in ² (0.754 mm ²) flexible - without cable end	
	Control circuit screw clamp terminals 2 0.000.00 in ² (11.5 mm ²) flexible - with cable end	
	Control circuit screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) flexible - without cable end	
	Control circuit screw clamp terminals 2 0.00 in ² (1 mm ²) solid	
	Power circuit lugs-ring terminals M12	
Tightening Torque	Control circuit 1.2 N.m screw clamp terminals	
	Power circuit 58 N.m screw clamp terminals	
Height	9.01 in (228.8 mm)	
Width	7.60 in (193 mm)	
Depth	5.02 in (127.6 mm)	
Net Weight	9.17 lb(US) (4.16 kg)	

Environment

Standards	IEC 60947-4-1 IEC 60255-8 EN 60947-4-1 IEC 60255-17 VDE 0660	
Product Certifications	UL CSA UKCA	
Protective Treatment	тн	
Ip Degree Of Protection	IP20 conforming to IEC 60529	
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	US10I1222334	
Discount Schedule	0112	
Gtin	3389110640236	
Returnability	Yes	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.30 in (16.0 cm)	
Package 1 Width	7.09 in (18.0 cm)	
Package 1 Length	6.69 in (17.0 cm)	
Package 1 Weight	7.87 lb(US) (3.571 kg)	

Contractual warranty

Warranty

18 months

Sustainability Screen

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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