Product data sheet





! Discontinued

TeSys LRF - electronic thermal overload relay - 90...150 A - class 10

LR9F5369

! Discontinued on: Dec 31, 2023



! End-of-service on: Mar 28, 2024

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	90150 A

Complementary

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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

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Maximum Voltage Drop	<2.5 V closed state
Connections - Terminals	Control circuit screw clamp terminals 1 0.000.00 in² (0.752.5 mm²) 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 in² (0.754 mm²) flexible - without cable end
	Control circuit screw clamp terminals 2 0.000.00 in² (11.5 mm²) flexible - with cable end
	Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible - without cable end
	Control circuit screw clamp terminals 2 0.00 in ² (1 mm ²) 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	3.78 in (96 mm)
Width	4.53 in (115 mm)
Depth	4.86 in (123.5 mm)
Net Weight	1.95 lb(US) (0.885 kg)

Environment

Standards	VDE 0660 IEC 60255-17 IEC 60947-4-1 IEC 60255-8 EN 60947-4-1
Product Certifications	UL CSA UKCA
Protective Treatment	TH
Ip Degree Of Protection	IP20 IEC 60529 IP20 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	<= 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

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.91 in (15.000 cm)
Package 1 Width	6.30 in (16.000 cm)
Package 1 Length	5.35 in (13.600 cm)
Package 1 Weight	30.55 oz (866.000 g)
Unit Type Of Package 2	S04
Number Of Units In Package 2	12

Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	15.75 in (40.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	24.91 lb(US) (11.300 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	48
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	125.65 lb(US) (56.996 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

Ø	Mercury Free	
	Rohs Exemption Information	Yes
②	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