Product datasheet

Specification





TeSys LRF - electronic thermal overload relay - 90...150 A - class 20

LR9F5569

! Discontinued on: Jun 15, 2023 AD

(!) Discontinued

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 20 conforming to IEC 60947-4
Thermal Protection Adjustment Range	90150 A

Complementary

50/60 Hz
Direct on contactor Plate
1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1
4 kV conforming to IEC 61000-4-5
1 NO + 1 NC
5 A for control circuit
1000 V AC 50/60 Hz for power circuit conforming to VDE 0110 group C
Power circuit: 1000 V AC conforming to IEC 60947-4
8 kV conforming to IEC 60947-1
Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1
Manual reset on front relay
Dial white full-load current adjustment Test button red Push-button red reset Push-button stop
Trip indicator
-2070 °C
<= 5 mA no-load
0150 mA
<2.5 V closed state

Connections - Terminals	Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: flexible - with cable end
	Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 cable 0.754 mm² - cable stiffness: flexible -
	without cable end Control circuit: screw clamp terminals 2 cable 11.5 mm² - cable stiffness: flexible - with cable end
	Control circuit: screw clamp terminals 2 cable 12.5 mm² - cable stiffness: flexible - without cable end
	Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid Power circuit: lugs-ring terminals M8
Tightening Torque	Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 18 N.m on screw clamp terminals
Height	96 mm
Width	115 mm
Depth	123.5 mm
Net Weight	0.885 kg
Environment	
Standards	IEC 60255-17 EN 60947-4-1 IEC 60255-8
	VDE 0660 IEC 60947-4-1
Product Certifications	CSA
	UL UKCA
Protective Treatment	тн
lp Degree Of Protection	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106
Ambient Air Temperature For Operation	-2055 °C conforming to IEC 60255-8
Ambient Air Temperature For Storage	-4085 °C
Operating Altitude	<= 2000 m without derating
Fire Resistance	850 °C conforming to IEC 60695-2-1
Mechanical Robustness	Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations 5300 Hz: 2 GN conforming to IEC 60068-2-6
Dielectric Strength	6 kV 50 Hz conforming to IEC 255-5

Electromagnetic Compatibility

Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	13.0 cm
Package 1 Width	15.0 cm
Package 1 Length	16.0 cm
Package 1 Weight	862.0 g
Unit Type Of Package 2	S04
Number Of Units In Package 2	12

Resistance to electrostatic discharge: 6 kV in indirect mode conforming to IEC 61000-4-2
Resistance to electrostatic discharge: 8 kV in air conforming to IEC 61000-4-2
Radiated radio-frequency electromagnetic field immunity test: 10 V/m conforming to

Fast transients immunity test: 2 kV conforming to IEC 61000-4-4

Package 2 Height	30.0 cm	
Package 2 Width	40.0 cm	
Package 2 Length	60.0 cm	
Package 2 Weight	10.996 ka	

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