



(!) Discontinued

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

LR9F71

! Discontinued on: 22 Feb 2023

! End-of-service on: 31 Dec 2023

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	LC1F185LC1F265	
Network type	AC	
Thermal overload class	Class 10/20 conforming to IEC 60947-4	
Thermal protection adjustment range	132220 A	
Signalling function	Pre-alarm indicator	

Complementary

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Network frequency	50/60 Hz	
[Us] rated supply voltage	24 V DC for alarm circuit	
Supply voltage limits	1732 V (alarm circuit)	
Mounting support	Direct on contactor Plate	
Tripping threshold	1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1 1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1	
Surge withstand	4 kV conforming to IEC 61000-4-5	
Contacts type and composition	1 NO + 1 NC	
[Ith] conventional free air thermal current	5 A for control circuit	
[Ue] rated operational voltage	1000 V AC 50/60 Hz for power circuit conforming to VDE 0110 group C	
[Ui] rated insulation voltage	Power circuit: 1000 V AC conforming to IEC 60947-4	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947-1	
Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1	
Reset	Manual reset	
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	-2070 °C			
Current consumption	<= 5 mA no-load			
switching capacity for alarm	0150 mA			
Maximum voltage drop	<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 M10 Alarm circuit: screw clamp terminals 1 cable 0.51.5 mm² - cable stiffness: flexible - without cable end			
Tightening torque	Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 35 N.m on screw clamp terminals Alarm circuit: 0.45 N.m on screw clamp terminals			
Height	101 mm			
Width	115 mm			
Depth	123.5 mm			
net weight	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	ТН			
P degree of protection	IP20 conforming to IEC 60529			
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	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 IEC 61000-4-3 Fast transients immunity test: 2 kV conforming to IEC 61000-4-4			
Packing Units				

Packing Units

Unit Type of Package 1 PCE

Number of Units in Package 1	1
Package 1 Height	15.0 cm
Package 1 Width	16.0 cm
Package 1 Length	13.0 cm
Package 1 Weight	1.072 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

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