Product data sheet Characteristics

LR9F5371

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





Main

IVICIII		
Range	TeSys	
Product name	TeSys LRF	ž
Device short name	LR9F	9
Product or component type	Electronic thermal overload relay	
Relay application	Motor protection	
Product compatibility	LC1F185LC1F265	i
Network type	AC	
Thermal overload class	Class 10 conforming to IEC 60947-4	:-
Thermal protection adjustment range	132220 A	

Complementary

		+
Network frequency	50/60 Hz	9
Supply voltage limits	1732 V	
Mounting support	Direct on contactor Plate	
Tripping threshold	1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1	
Surge withstand	4 kV conforming to IEC 61000-4-5	9
Contacts type and composition	1 NO + 1 NC	
[Ith] conventional free air thermal current	5 A for control circuit	, 0
[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	IEC 60947-1 8 kV	<u>.</u> g
Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1	or in the property of the prop
Reset	Manual reset on front relay	
Control type	Dial white full-load current adjustment Test button red Push-button red reset Push-button stop	isolaimar. This A

Local signalling	Trip indicator	
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	
Tightening torque	Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 35 N.m on screw clamp terminals	
Height	101 mm	
Width	115 mm	
Depth	123.5 mm	
Net weight	0.95 kg	

Environment

Standards	IEC 60255-17 IEC 60947-4-1 IEC 60255-8 VDE 0660 EN 60947-4-1	
Product certifications	UL CSA	
Protective treatment	TH	
IP 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	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	

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty

Warranty 18 months