Product data sheet Characteristics

LR9F5371

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





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 conforming to IEC 60947-4	
Thermal protection adjustment range	132220 A	

Complementary

Network frequency	50/60 Hz
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
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 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	-2070 °C
Current consumption	<= 5 mA no-load
Switching capacity in mA	0150 mA
Maximum voltage drop	<2.5 V closed state

Connections - terminals	Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiff- ness: flexible - with cable end
	Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiff- ness: 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 mm ² - cable stiffness: flexible - without cable end
	Control circuit: screw clamp terminals 2 cable 1 mm ² - 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	
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Standards	IEC 60255-17
	IEC 60947-4-1
	IEC 60255-8
	VDE 0660
	EN 60947-4-1
Product certifications	UL
	CSA
	UKCA
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

Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.04 Kg
Package 1 Height	16.5 Cm
Package 1 width	13 Cm
Package 1 Length	15 Cm
Unit Type of Package 2	S04
Number of Units in Package 2	11
Package 2 Weight	12.03 Kg
Package 2 Height	30 Cm
Package 2 width	40 Cm
Package 2 Length	60 Cm
Unit Type of Package 3	P06
Number of Units in Package 3	44
Package 3 Weight	59.048 Kg
Package 3 Height	77 Cm



Package 3 width	60 Cm
Package 3 Length	80 Cm
Offer Sustainability	
Sustainable offer status	Green Premium product
EU RoHS Directive	Compliant EEU RoHS Declaration
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
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
PVC free	Yes

Contractual warranty

Warranty	18 months
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Product Life Status :	Commercialised	
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