Product datasheet Characteristics

LR9F5371

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



Main

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Range	TeSys	
Product name	TeSys LRF	— ()
Device short name	LR9F	— Se pre
Product or component type	Electronic thermal overload relay	- the
Relay application	Motor protection	<u>`</u>
Product compatibility	LC1F185LC1F265	relia
Network type	AC	— <u>i</u>
Overload tripping class	Class 10 conforming to IEC 60947-4	litabi
Thermal protection adjustment range	132220 A	100

Complementary

Network frequency	50/60 Hz	
Supply voltage limits	1732 V	
Mounting support	Plate Direct on contactor	
Tripping threshold	1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1	
Surge withstand	4 kV conforming to IEC 61000-4-5	4
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	1000 V AC power circuit 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	- This

s substitute for and is not to be used for determining suitability or reliability of these prod

Local signalling	Trip indicator
Temperature compensation	-2070 °C
Current consumption	<= 5 mA no-load
Switching capacity in mA	0150 mA
Voltage drop	<= 2.5 V closed state
Connections - terminals	Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: flexible - with cable end cable end Control circuit: screw clamp terminals 1 cable 0.754 mm² - cable stiffness: flexible - without cable end 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 12.5 mm² - cable stiffness: flexible - without cable end cable end 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
Product weight	0.95 kg

Environment

Standards	EN 50081-1
Standards	EN 50081-1 EN 50081-2
	EN 50082-2
	EN 60947-4-1
	IEC 60255-17
	IEC 60255-8
	IEC 60947-4-1
	VDE 0660
Product certifications	CSA
	UL
Protective treatment	TH
IP degree of protection	IP20 conforming to VDE 0106
	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 at 50 Hz conforming to IEC 255-5
Electromagnetic compatibility	Radiated radio-frequency electromagnetic field immunity test 10 V/m conforming to IEC 61000-4-3
	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
	Fast transients immunity test 2 kV conforming to IEC 61000-4-4

Contractual warranty

Warranty period To months
