LR9F75

thermal overload relay for motor - TeSys LR9 - 200...330 A - class 10

Main	
Commercial Status	Commercialised
Range of product	TeSys F
Device short name	LR9F
Product or component type	Thermal overload relay
Relay application	Motor protection
Product compatibility	LC1F225LC1F500
Network type	DC
Overload tripping class	Class 20 conforming to IEC 60947-4 Class 10 conforming to IEC 60947-4
Signalling function	Alarm
Thermal protection adjustment range	200300 A
Protection type	GG fuse 500 A - for power circuit GG fuse 5 A - for control circuit GB2 circuit breaker 5 A - for control circuit BS fuse 5 A - for control circuit AM fuses 400 A - for power circuit
Signalling function	Pre-alarm indicator
Quantity per set	Set of 10

Complementary

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Network frequency	50/60 Hz
[Us] rated supply voltage	24 V DC
Supply voltage limits	1732 V
Mounting support	Rail Direct on contactor
Tripping threshold	1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1 1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1
Surge withstand	4 kV conforming to IEC 61000-4-5
[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
Temperature compensation	-2070 °C
Current consumption	<= 5 mA no-load
Switching capacity in mA	0150 mA
Output overload protection	Automatic trip
Output short-circuit protection	Automatic trip
Voltage drop	02.5 V closed state
Connections - terminals	Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 cable 12.5 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 1 cable 0.754 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: flexible - with cable end

Tightening torque	Power circuit: 35 N.m - on screw clamp terminals Control circuit: 1.2 N.m - on screw clamp terminals	
	Alarm circuit: 0.45 N.m	
Height	127.6 mm	
Width	150 mm	
Depth	136.8 mm	
Product weight	2.32 kg	
Environment		
Standards	EN 60947-4-1 IEC 60255-17 IEC 60255-8 IEC 60947-4-1 VDE 0660	
Product certifications	CSA 22-2 GOST UL 508	
Protective treatment	TH	
IP 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	
Shock resistance	13 gn 11 ms conforming to IEC 60068-2-7	
Vibration resistance	2 gn 5300 Hz conforming to IEC 60068-2-6	
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5	
Resistance to electrostatic discharge	8 kV in air conforming to IEC 61000-4-2 6 kV in indirect mode conforming to IEC 61000-4-2	
Resistance to radiated fields	10 V/m conforming to IEC 61000-4-2	
Resistance to fast transients	2 kV conforming to IEC 61000-4-4	

Contractual warranty

Period 18 months	
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