# LR9F71

thermal overload relay for motor - TeSys LR9 - 132...220 A - class 10



#### Main

Walii	
Range of product	TeSys F
Device short name	LR9F
Product or component type	Thermal overload relay
Relay application	Motor protection
Product compatibility	LC1F185LC1F400
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	132220 A
Protection type	GG fuse 5 A - for control circuit GG fuse 315 A - for power circuit GB2 circuit breaker 5 A - for control circuit BS fuse 5 A - for control circuit AM fuses 250 A - for power circuit
Signalling function	Pre-alarm indicator
Quantity per set	Set of 10

#### Complementary

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:
Tightoning torque	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

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Alarm circuit: 0.45 N.m

Height	123.5 mm
Width	115 mm
Depth	101 mm
Product weight	0.95 kg

### Environment

IEC 60255-17
IEC 60255-8
IEC 60947-4-1
VDE 0660
CSA 22-2
GOST
UL 508
TH
IP20 conforming to IEC 60529
-2055 °C conforming to IEC 60255-8
-4085 °C
2000 m without derating
850 °C conforming to IEC 60695-2-1
13 gn 11 ms conforming to IEC 60068-2-7
2 gn 5300 Hz conforming to IEC 60068-2-6
6 kV at 50 Hz conforming to IEC 60255-5
8 kV in air conforming to IEC 61000-4-2
6 kV in indirect mode conforming to IEC 61000-4-2
10 V/m conforming to IEC 61000-4-2
2 kV conforming to IEC 61000-4-4

## Contractual warranty

Period	18 months

