

# TeSys LRF - electronic thermal overload relay - 380...630 A - class 10

LR9F7381

Discontinued on: 15 June 2023

! Discontinued

Product availability: Stock - Normally stocked in distribution facility

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	LC1F800 LC1F400LC1F630
Network type	AC
Thermal overload class	Class 10 IEC 60947-4
Thermal protection adjustment range	380630 A
Signalling function	Pre-alarm indicator
Complementary	
Network Frequency	50/60 Hz
Mounting support	Direct on contactor

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Tripping threshold	1.12 +/- 0.06 In tripping IEC 60947-4-1
Surge withstand	4 kV IEC 61000-4-5
Contacts type and composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A control circuit
[Ue] rated operational voltage	1000 V AC 50/60 Hz power circuit VDE 0110 group C
[Ui] rated insulation voltage	Power circuit 1000 V AC IEC 60947-4
[Uimp] rated impulse withstand voltage	8 kV IEC 60947-1

Control type

Dial White full-load current adjustment
Test button Red
Push-button Red reset
Push-button stop

Manual reset

Phase failure sensitivity

Reset

Tripping in 4 s +/- 20 % IEC 60947-4-1

Local signalling	Trip indicator
Temperature compensation	-4158 °F (-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 0.000.00 in² (0.752.5 mm²) flexible - with cable end Control circuit screw clamp terminals 1 0.000.00 in² (0.752.5 mm²) solid Control circuit screw clamp terminals 1 0.000.01 in² (0.754 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.000.00 in² (11.5 mm²) flexible - with cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.00 in² (1 mm²) solid Power circuit lugs-ring terminals M12
Tightening torque	Control circuit 1.2 N.m screw clamp terminals Power circuit 58 N.m screw clamp terminals
Height	9.01 in (228.8 mm)
Width	7.60 in (193 mm)
Depth	5.02 in (127.6 mm)
Net Weight	9.17 lb(US) (4.16 kg)

#### **Environment**

Standards	VDE 0660 IEC 60255-17 IEC 60255-8 EN 60947-4-1 IEC 60947-4-1
Product Certifications	CSA UL UKCA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-4131 °F (-2055 °C) IEC 60255-8
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Operating altitude	<= 6561.68 ft (2000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Mechanical robustness	Shocks13 Gn for 11 ms IEC 60068-2-7 Vibrations 5300 Hz2 GN IEC 60068-2-6
Dielectric strength	6 kV 50 Hz IEC 255-5
Electromagnetic compatibility	Resistance to electrostatic discharge 6 kV in indirect mode IEC 61000-4-2 Resistance to electrostatic discharge 8 kV in air IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test 10 V/m IEC 61000-4-3 Fast transients immunity test 2 kV IEC 61000-4-4

## Ordering and shipping details

Category	22334-CONTACTOR,F-LINE,OVERLOADS
Discount Schedule	l12
GTIN	3389110566048
Returnability	No
Country of origin	FR

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	9.45 in (24.000 cm)
Package 1 Length	8.27 in (21.000 cm)
Package 1 Weight	7.64 lb(US) (3.466 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	310.09 lb(US) (140.656 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
RoHS exemption information	Yes
<b>Environmental Disclosure</b>	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

Recommended replacement(s)