# **Product data sheet**

Specification





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

LR9F7381

! Discontinued on: Jun 15, 2023



Product availability: Non-Stock - Not 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 Plate
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
Phase failure sensitivity	Tripping in 4 s +/- 20 % IEC 60947-4-1
Reset	Manual reset
Control type	Dial White full-load current adjustment Test button Red Push-button Red reset Push-button stop
local signalling	Trip indicator
Temperature compensation	-4158 °F (-2070 °C)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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 0.0010.004 in² (0.752.5 mm²) flexible - with cable end	
	Control circuit screw clamp terminals 1 0.0010.004 in <sup>2</sup> (0.752.5 mm <sup>2</sup> ) solid	
	Control circuit screw clamp terminals 1 0.0010.006 in² (0.754 mm²) flexible - without cable end	
	Control circuit screw clamp terminals 2 0.0020.002 in <sup>2</sup> (11.5 mm <sup>2</sup> ) flexible - with cable end	
	Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²) flexible - without cable end	
	Control circuit screw clamp terminals 2 0.002 in <sup>2</sup> (1 mm <sup>2</sup> ) 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	9.008 in (228.8 mm)	
Width	7.6 in (193 mm)	
<b>Depth</b> 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
	120 000 11 1
Product Certifications	CSA
	UL
	UKCA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for	-4131 °F (-2055 °C) IEC 60255-8
operation	
Ambient Air Temperature for	-40185 °F (-4085 °C)
Storage	
Operating altitude	<= 6561.68 ft (2000 m) without derating
	1- 000 1.00 it (2000 iii) without defating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
	1002 1 (000 0) 120 00000 2 1
Mechanical robustness	Shocks13 Gn for 11 ms IEC 60068-2-7
	Vibrations 5300 Hz2 GN IEC 60068-2-6
	VIDIATIONS SSOUTIZE GIVILE GOODS-2-0
Dielectric strength	6 kV 50 Hz IEC 255-5
	0 KV 00 FIZ IEO 200 0
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
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	Fast transients immunity test 2 kV IEC 61000-4-4

## Ordering and shipping details

Category	US10I1222334
Discount Schedule	0112
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	7.874 in (20.000 cm)
Package 1 Width	9.449 in (24.000 cm)
Package 1 Length	8.268 in (21.000 cm)
Package 1 Weight	7.641 lb(US) (3.466 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	36
Package 2 Height	29.528 in (75.000 cm)
Package 2 Width	23.622 in (60.000 cm)
Package 2 Length	31.496 in (80.000 cm)
Package 2 Weight	310.094 lb(US) (140.656 kg)

## **Contractual warranty**

Warranty 18 months

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Transparency RoHS/REACh

#### Well-being performance

<b>②</b>	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

#### **Certifications & Standards**

REACh Declaration
Compliant with Exemptions
China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
End of Life Information
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