

# Product datasheet

Specifications



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

Local distributor code:  
380914667

LR9F5371

⚠ Discontinued on: 15 Jun 2023

⚠ Discontinued

EAN Code: 3389110566017

### 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	LC1F185...LC1F265
Network type	AC
Thermal overload class	Class 10 conforming to IEC 60947-4
Thermal protection adjustment range	132...220 A

### Complementary

Network frequency	50/60 Hz
Mounting support	Direct on contactor Plate
Tripping threshold	1.12 +/- 0.06 In tripping conforming to IEC 60947-4-1
Surge withstand	4 kV conforming to IEC 61000-4-5
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	Power circuit: 1000 V AC 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
Local signalling	Trip indicator
Temperature compensation	-20...70 °C
Current consumption	<= 5 mA no-load
switching capacity for alarm	0...150 mA
Maximum voltage drop	<2.5 V closed state

<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 0.75...2.5 mm <sup>2</sup> - cable stiffness: solid Control circuit: screw clamp terminals 1 cable 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1 mm <sup>2</sup> - cable stiffness: solid Power circuit: lugs-ring terminals M10
<b>Tightening torque</b>	Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 35 N.m on screw clamp terminals
<b>Height</b>	101 mm
<b>Width</b>	115 mm
<b>Depth</b>	123.5 mm
<b>Net weight</b>	0.95 kg

## Environment

<b>Standards</b>	IEC 60255-17 IEC 60947-4-1 IEC 60255-8 VDE 0660 EN 60947-4-1
<b>Product certifications</b>	UL CSA UKCA
<b>Protective treatment</b>	TH
<b>IP degree of protection</b>	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106
<b>Ambient air temperature for operation</b>	-20...55 °C conforming to IEC 60255-8
<b>Ambient air temperature for storage</b>	-40...85 °C
<b>Operating altitude</b>	<= 2000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Mechanical robustness</b>	Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations 5...300 Hz: 2 GN conforming to IEC 60068-2-6
<b>Dielectric strength</b>	6 kV 50 Hz conforming to IEC 255-5
<b>Electromagnetic compatibility</b>	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 Radiated radio-frequency electromagnetic field immunity test: 10 V/m conforming to IEC 61000-4-3 Fast transients immunity test: 2 kV conforming to IEC 61000-4-4

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	15.000 cm
<b>Package 1 Width</b>	16.500 cm
<b>Package 1 Length</b>	13.000 cm
<b>Package 1 Weight</b>	1.035 kg
<b>Unit Type of Package 2</b>	S04
<b>Number of Units in Package 2</b>	11

Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	12.030 kg
Unit Type of Package 3	P06
Number of Units in Package 3	44
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	59.048 kg

## Logistical informations

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Country of origin FR

## Contractual warranty

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Warranty 18 months

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint 133

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number D5a17874-1166-4927-b008-33d15e304a41

REACH Regulation [REACH Declaration](#)

PVC free Yes

## Use Again

### Repack and remanufacture

Recyclability potential, in % 92

End of life manual availability [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins