# Product datasheet Characteristics

## LR9F5367

TeSys LRF - electronic thermal overload relay - 60...100 A - class 10





#### Main

IVICIII		
Range	TeSys	
Product name	TeSys LRF	į
Device short name	LR9F	9
Product or component type	Electronic thermal overload relay	# #
Relay application	Motor protection	
Product compatibility	LC1F115LC1F185	in a second seco
Network type	AC	
Thermal overload class	Class 10 conforming to IEC 60947-4	
Thermal protection adjustment range	60100 A	<u> </u>

#### Complementary

Network frequency	50/60 Hz	
Supply voltage limits	1732 V	9
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	tite f
Contacts type and composition	1 NO + 1 NC	nubst trute
[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	ntended
[Ui] rated insulation voltage	Power circuit: 1000 V AC conforming to IEC 60947-4	
[Uimp] rated impulse withstand voltage	IEC 60947-1 8 kV	<u></u>
Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1	
Reset	Manual reset on front relay	documentation
Control type	Dial white full-load current adjustment Test button red Push-button red reset	daimer: This o

	Double the enter
Land day office	Push-button stop
Local signalling	Trip indicator
Temperature compensation	-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 cable 0.752.5 mm² - cable stiffness: flexible - with cable end  Control circuit: screw clamp terminals 1 cable 0.752.5 mm² - cable stiffness: solid  Control circuit: screw clamp terminals 1 cable 0.754 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 2 cable 12.5 mm² - cable stiffness: flexible - without cable end  Control circuit: screw clamp terminals 2 cable 1 mm² - cable stiffness: solid  Power circuit: lugs-ring terminals M8
Tightening torque	Control circuit: 1.2 N.m on screw clamp terminals Power circuit: 18 N.m on screw clamp terminals
Height	96 mm
Width	115 mm
Depth	123.5 mm
Net weight	0.9 kg
Environment	
Standards	IEC 60255-8 VDE 0660 IEC 60255-17 IEC 60947-4-1 EN 60947-4-1
Product certifications	UL CSA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106
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
Mechanical robustness	Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations 5300 Hz: 2 Gn conforming to IEC 60068-2-6

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Dielectric strength

Electromagnetic compatibility

racking units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	877 g	
Package 1 Height	13 cm	
Package 1 width	15 cm	
Package 1 Length	16 cm	
Unit Type of Package 2	S04	
Number of Units in Package 2	12	
Package 2 Weight	11.51 kg	
Package 2 Height	30 cm	
Package 2 width	40 cm	

Resistance to electrostatic discharge: 6 kV in indirect mode conforming to IEC 61000-4-2

Radiated radio-frequency electromagnetic field immunity test: 10 V/m conforming to IEC 61000-4-3

Resistance to electrostatic discharge: 8 kV in air conforming to IEC 61000-4-2

Fast transients immunity test: 2 kV conforming to IEC 61000-4-4

6 kV 50 Hz conforming to IEC 255-5

Package 2 Length	60 cm
Unit Type of Package 3	P06
Number of Units in Package 3	48
Package 3 Weight	55.604 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	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

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Warranty	18 months