Product data sheet
Characteristics

LR9F5557
TeSys LRF - electronic thermal overload relay - 30...50 A - class 20

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	LC1F115...LC1F185
Network type	AC
Thermal overload class	Class 20 IEC 60947-4
Thermal protection adjustment range	30…50 A

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 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	-4…158 °F (-20…70 °C)
Current consumption	<= 5 mA no-load
Switching capacity for alarm	0...150 mA
Maximum voltage drop	<2.5 V closed state
Connections - terminals	Control circuit screw clamp terminals 1 0.00…0.00 in² (0.75…2.5 mm²) flexible - with cable end Control circuit screw clamp terminals 1 0.00…0.00 in² (0.75…2.5 mm²) solid Control circuit screw clamp terminals 1 0.00…0.01 in² (0.75…4 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…1.5 mm²) flexible - with cable end Control circuit screw clamp terminals 2 0.00…0.00 in² (1…2.5 mm²) flexible - without cable end Control circuit screw clamp terminals 2 0.00 in² (1 mm²) solid Power circuit lugs-ring terminals M6
Tightening torque	Control circuit 1.2 N.m screw clamp terminals Power circuit 10 N.m screw clamp terminals
Height	3.78 in (96 mm)
Width	4.53 in (115 mm)
Depth	4.86 in (123.5 mm)
Net Weight	1.95 lb(US) (0.885 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
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Environment

Standards	IEC 60947-4-1 IEC 60255-17 IEC 60255-8 EN 60947-4-1 VDE 0660
Product Certifications	CSA[RETURN]UL[RETURN]UKCA
Protective treatment	TH
IP degree of protection	IP20 conforming to IEC 60529 IP20 conforming to VDE 0106
Ambient air temperature for operation	-4…131 °F (-20…55 °C) IEC 60255-8
Ambient Air Temperature for Storage	-40…185 °F (-40…85 °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 5...300 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	I12
GTIN	3389110640168
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.31 in (13.5 cm)
Package 1 Width	4.21 in (10.7 cm)
Package 1 Length	6.06 in (15.4 cm)
Package 1 Weight	3.14 oz (89.0 g)

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 with Exemptions
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
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

Warranty	18 months