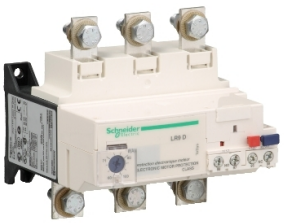
Product datasheet

Specifications



TeSys LRD thermal overload relays - 90...150 A - class 20

Local distributor code:

386424821 LR9D5569

Discontinued on: 9 Feb 2023

EAN Code: 3389110787948

Discontinued

Main

Range	TeSys
Product name	TeSys LRD TeSys Deca
Product or component type	Electronic thermal overload relay
Device short name	LR9D
Relay application	Motor protection
Product compatibility	NSX circuit breaker LC1D115 LC1D150
Network type	AC
Thermal overload class	Class 20 conforming to IEC 60947-4-1
Signalling function	Alarm
Thermal protection adjustment range	90…150 A
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL

Complementary

Network frequency	50...60 Hz
[Us] rated supply voltage	24 V DC
Supply voltage limits	17…32 V
Mounting support	Under contactor Rail
Tripping threshold	1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1 1.12 +/- 0.06 In de-energisation conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A for signalling circuit
[Ue] rated operational voltage	690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1
Associated fuse rating	4 A gG for signalling circuit 4 A BS for signalling circuit
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947-1
Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1
Control type	Red push-button: stop Blue push-button: reset

Disclaimer: 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

Temperature compensation	-20…60 °C
Switching capacity in mA	0...150 mA
Maximum voltage drop	<2.5 V closed state
Connections - terminals	Power circuit: bars Control circuit: screw clamp terminals 1 cable(s) 0.5…1.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 0.5…1.5 mm² flexible without cable end Alarm circuit: screw clamp terminals 1 cable(s) 0.5…1.5 mm² flexible without cable end
Tightening torque	Alarm circuit: 0.45 N.m - on screw clamp terminals Power circuit: 18 N.m - on bars M8 Control circuit: 1.2 N.m - on screw clamp terminals
Height	118 mm
Width	115 mm
Depth	125 mm
Net weight	0.885 kg

Environment

Climatic withstand	conforming to IACS E10
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20…60 °C without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-60…70 °C
Operating altitude	<= 2000 m without derating
Mechanical robustness	Vibrations: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6 Shocks: 13 Gn for 11 ms conforming to IEC 60068-2-7
Dielectric strength	1.89 kV at 50 Hz conforming to IEC 60947-1
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 GB/T 14048.5
Product certifications	UL CSA CCC UKCA

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	15.000 cm
Package 1 Width	15.500 cm
Package 1 Length	13.000 cm
Package 1 Weight	924.000 g
Unit Type of Package 2	S04
Number of Units in Package 2	12
Package 2 Height	30.000 cm

Package 2 Width	40.000 cm
Package 2 Length	60.000 cm
Package 2 Weight	11.909 kg

Logistical informations

Country of origin	FR

Contractual warranty

Warranty (in months)	18

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 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**4 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.6 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0.1 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**127 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**2 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
SCIP Number	**D5a17874-1166-4927-b008-33d15e304a41**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**
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**