Product datasheet

Specifications

Thermal overload relay, TeSys Deca, 690VAC, 12 to 18A, 1NO+1NC, class 20, for D40A to D65A, screw clamp

LRD318L

Main

Range	TeSys TeSys Deca
Product name	TeSys LRD TeSys Deca
Product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D50A LC1D65A LC1D40A
Network type	DC AC
Thermal overload class	Class 20 conforming to IEC 60947-4-1
Thermal protection adjustment range	12…18 A
[Ui] rated insulation voltage	Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL Power circuit: 690 V conforming to IEC 60947-4-1

Complementary

Network frequency	0...400 Hz
Mounting support	Plate, with specific accessories Rail, with specific accessories Under contactor
Tripping threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[Ith] conventional free air thermal current	5 A for signalling circuit
Permissible current	3 A at 120 V AC-15 for signalling circuit 0.22 A at 125 V DC-13 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
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0
Control type	Red push-button: stop Blue push-button: reset
Temperature compensation	-20…60 °C

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1…35 mm² solid without cable end
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 5 N.m - on EverLink BTR screw connectors
Height	70 mm
Width	55 mm
Depth	123 mm
Net weight	0.375 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
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 4 gn conforming to IEC 60068-2-6
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 EN 50495
Product certifications	IEC UL CSA CCC EAC DNV-GL RMRS EU-RO MR LROS (Lloyds register of shipping) ATEX INERIS

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.000 cm
Package 1 Width	10.500 cm
Package 1 Length	14.000 cm
Package 1 Weight	411.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	12

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.192 kg
Unit Type of Package 3	P12
Number of Units in Package 3	192
Package 3 Height	45.000 cm
Package 3 Width	80.000 cm
Package 3 Length	120.000 cm
Package 3 Weight	91.072 kg

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	**4 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
EU RoHS Directive	**Compliant**
REACh Regulation	**REACh Declaration**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

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**

Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

Technical Illustration

Assembly's dimensions