## **Product datasheet**

Specifications

Green Premium



# TeSys LRD thermal overload relays - 0.63...1 A - class 10A

LRD053

() Discontinued on: 10 Jul 2021

(!) Discontinued

#### Main

Range	TeSys
Product name	TeSys LRD
	TeSys Deca
product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D32
	LC1D09
	LC1D12
	LC1D38
	LC1D25
	LC1D18
Network type	DC
	AC
Thermal overload class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	0.631 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	0400 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 0400 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	-2060 °C
Connections - terminals	Control circuit: spring terminals 1 cable(s) 12.5 mm <sup>2</sup> solid without cable end Control circuit: spring terminals 1 cable(s) 12.5 mm <sup>2</sup> flexible without cable end Power circuit: spring terminals 1 cable(s) 1.54 mm <sup>2</sup> flexible without cable end Power circuit: spring terminals 1 cable(s) 1.54 mm <sup>2</sup> flexible with cable end
Height	93 mm
Width	45 mm
Depth	72 mm
net weight	0.14 kg

## Environment

Climatic withstand	conforming to IACS E10
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-2060 °C without derating conforming to IEC 60947-4-1
ambient air temperature for storage	-6070 °C
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations: 6 Gn conforming to IEC 60068-2-6 Shocks: 15 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 60947-5-1 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 BV RINA DNV-GL 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	5.5 cm
Package 1 Width	8.0 cm
Package 1 Length	10.0 cm
Package 1 Weight	197.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	23
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm

Package 2 Weight

#### **Contractual warranty**

Warranty

12 months

## Sustainability Screen

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

#### Well-being performance

Reach Free Of Svhc

Rohs Exemption Information

#### **Certifications & Standards**

Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information