

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 12...18 A - class 20

LRD21L

### 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	LC1D25 LC1D18 LC1D32 LC1D38
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 I <sub>r</sub> conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[I <sub>th</sub> ] 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
[U <sub>e</sub> ] 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
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0
Control type	Red push-button: stop Blue push-button: reset
Temperature compensation	-20...60 °C

<b>Connections - terminals</b>	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1...6 mm <sup>2</sup> solid without cable end
<b>Tightening torque</b>	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 1.7 N.m - on screw clamp terminals
<b>Height</b>	66 mm
<b>Width</b>	45 mm
<b>Depth</b>	76 mm
<b>Net weight</b>	0.144 kg

## Environment

<b>Climatic withstand</b>	conforming to IACS E10
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-20...60 °C without derating conforming to IEC 60947-4-1
<b>Ambient air temperature for storage</b>	-60...70 °C
<b>Mechanical robustness</b>	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6
<b>Dielectric strength</b>	1.89 kV at 50 Hz conforming to IEC 60947-1
<b>Standards</b>	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 EN 50495
<b>product certifications</b>	IEC UL CSA EAC ABS ATEX INERIS UKCA

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.3 cm
<b>Package 1 Width</b>	7.2 cm
<b>Package 1 Length</b>	4.5 cm
<b>Package 1 Weight</b>	174.0 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	24
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	4.624 kg

<b>Unit Type of Package 3</b>	P12
<b>Number of Units in Package 3</b>	768
<b>Package 3 Height</b>	80.0 cm
<b>Package 3 Width</b>	75.0 cm
<b>Package 3 Length</b>	120.0 cm
<b>Package 3 Weight</b>	111.36 kg

## **Contractual warranty**

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Sustainable Packaging Transparency RoHS/REACH

## Resource performance

Sustainable Packaging

## Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant  
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)  
Pro-active China RoHS declaration (out of China RoHS legal scope)

Environmental Disclosure [Product Environmental Profile](#)

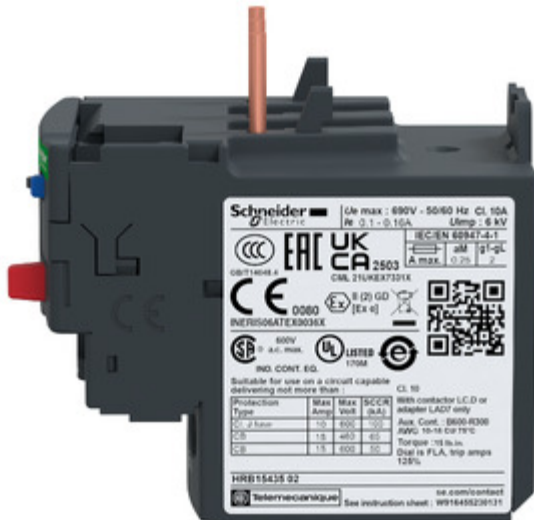
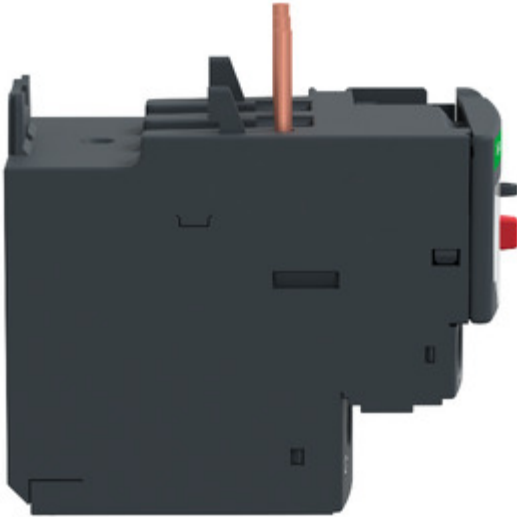
Weee The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Circularity Profile [End of Life Information](#)

Image of product / Alternate images

Alternative

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**Schneider Electric** | Ue max : 800V - 50/60 Hz, Ci 10A  
 Ie : 2.5 - 2.16A, Uimp : 6 kV

**CCC EAC UK CA 2503** | REC-EN 60947-4-1  
 CML 21UKEX73D1X | A max 0.2% | 1-GL

00011808A | **CE** 0080 | **UL** 170M | **IEC** 170M

600V | 4-p. max. | **ISO** CONT. EG.

Suitable for use on a circuit capable  
 delivering not more than

Protection Type	Max Amp	Max Volt	SCCR
C, 2 later	10	500	100
CS	15	480	65
CS	15	500	10

With contactor L.C.D or  
 adapter LA07 only  
 App. Cont. : 8000-4300  
 I<sub>SC</sub> : 10-16 kA 175°C  
 Torque : 13 in.lbs.  
 Dist in P.L.A. trip amps  
 125%

**HRB15435 02** | [se.com/contact](http://se.com/contact)  
[teher@schneider.com](mailto:teher@schneider.com) | See instruction sheet : W916458230131

