

# Product datasheet

Specifications



## TeSys LRD thermal overload relays - 9...13 A - class 10A

LRD313

### Main

<b>Range</b>	TeSys TeSys Deca
<b>Product name</b>	TeSys LRD TeSys Deca
<b>Product or component type</b>	Differential thermal overload relay
<b>Device short name</b>	LRD
<b>Relay application</b>	Motor protection
<b>Product compatibility</b>	LC1D40A LC1D50A LC1D65A
<b>Network type</b>	AC DC
<b>Thermal overload class</b>	Class 10A conforming to IEC 60947-4-1
<b>Thermal protection adjustment range</b>	9...13 A
<b>[Ui] rated insulation voltage</b>	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

<b>Network frequency</b>	0...400 Hz
<b>Mounting support</b>	Plate, with specific accessories Rail, with specific accessories Under contactor
<b>Tripping threshold</b>	1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>[I<sub>th</sub>] conventional free air thermal current</b>	5 A for signalling circuit
<b>Permissible current</b>	0.95 A at 380 V AC-15 for signalling circuit 0.06 A at 440 V DC-13 for signalling circuit
<b>[U<sub>e</sub>] rated operational voltage</b>	690 V AC 0...400 Hz for power circuit conforming to IEC 60947-4-1
<b>Associated fuse rating</b>	4 A gG for signalling circuit 4 A BS for signalling circuit
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV
<b>Phase failure sensitivity</b>	Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0
<b>Control type</b>	Red push-button: stop Blue push-button: reset
<b>Temperature compensation</b>	-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: EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> flexible without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> flexible with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 1...35 mm <sup>2</sup> solid without cable end
<b>Tightening torque</b>	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 5 N.m - on EverLink BTR screw connectors
<b>Height</b>	70 mm
<b>Width</b>	55 mm
<b>Depth</b>	123 mm
<b>Net weight</b>	0.375 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>Flame retardance</b>	V1 conforming to UL 94
<b>Mechanical robustness</b>	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 4 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 CCC EAC DNV-GL RMRS EU-RO MR LROS (Lloyds register of shipping) 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>	6.200 cm
<b>Package 1 Width</b>	10.500 cm
<b>Package 1 Length</b>	13.600 cm
<b>Package 1 Weight</b>	398.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	13

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.464 kg

## Contractual warranty

Warranty	18 months
----------	-----------

## 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](#)

Circularity Profile [End of Life Information](#)

Image of product / Alternate images

Alternative

---



