

# Product data sheet

Specifications



## Thermal overload relay, TeSys LRD,Deca, 12...18 A, class 10A

LRD21

### 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	LC1D32 LC1D18 LC1D25 LC1D38
Network type	AC DC
Thermal overload class	Class 10A 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	1.5 A at 240 V AC-15 for signalling circuit 0.1 A at 250 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

<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 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
<b>Tightening torque</b>	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 2.5 N.m - on screw clamp terminals
<b>Height</b>	66 mm
<b>Width</b>	45 mm
<b>Depth</b>	70 mm
<b>Net weight</b>	0.124 kg

## Environment

<b>Protective treatment</b>	TH conforming to IEC 60068
<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>	Vibrations: 6 Gn conforming to IEC 60068-2-6 Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7
<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 GB/T 14048.4 GB/T 14048.5 EN 50495
<b>Product certifications</b>	IEC UL CSA CCC EAC BV RINA DNV-GL 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 Weight</b>	147 g
<b>Package 1 Height</b>	5 cm
<b>Package 1 width</b>	7.8 cm
<b>Package 1 Length</b>	8.8 cm
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	24
<b>Package 2 Weight</b>	3.842 kg
<b>Package 2 Height</b>	15 cm

Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Weight	72.228 kg
Package 3 Height	77 cm
Package 3 width	60 cm
Package 3 Length	80 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

## Contractual warranty

Warranty	18 months
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