

# Product data sheet

Specifications



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

LR3D1521

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys LRD
Product or Component Type	Non differential thermal overload relay
Device short name	LR3D
Relay application	Motor protection
Product Compatibility	LC1D09...LC1D32
Network type	AC DC
Thermal overload class	Class 20 IEC 60947-4-1
Thermal protection adjustment range	12...18 A
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V 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> IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[I <sub>th</sub> ] conventional free air thermal current	5 A signalling circuit
Permissible current	1.5 A 240 V AC-15 signalling circuit 0.1 A 250 V DC-13 signalling circuit
[U <sub>e</sub> ] rated operational voltage	690 V AC 0...400 Hz power circuit 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	-4...140 °F (-20...60 °C)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Connections - terminals</b>	Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible without cable end Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) flexible with cable end Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) solid without cable end Power circuit screw clamp terminals 1 0.002...0.02 in <sup>2</sup> (1.5...10 mm <sup>2</sup> ) flexible without cable end Power circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) flexible with cable end Power circuit screw clamp terminals 1 0.002...0.009 in <sup>2</sup> (1...6 mm <sup>2</sup> ) solid without cable end
<b>Tightening torque</b>	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 16.37 lbf.in (1.85 N.m) screw clamp terminals
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	3.6 in (92 mm)
<b>Net Weight</b>	0.42 lb(US) (0.19 kg)

## Environment

<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-4...140 °F (-20...60 °C) without derating IEC 60947-4-1
<b>Ambient Air Temperature for Storage</b>	-76...158 °F (-60...70 °C)
<b>Flame retardance</b>	V1 conforming to UL 94
<b>Mechanical robustness</b>	Vibrations 6 Gn IEC 60068-2-6 Shocks 15 Gn for 11 ms IEC 60068-2-7
<b>Dielectric strength</b>	1.89 kV 50 Hz 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
<b>Product Certifications</b>	IEC UL CSA CCC EAC BV DNV-GL LROS (Lloyds register of shipping)

## Ordering and shipping details

<b>Category</b>	22314-**OBS**CTR,D-LINE,OVERLOADS
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110207446
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Contractual warranty

<b>Warranty (in months)</b>	18
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## 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 >](#)

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



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