

# Product data sheet

Specifications



## TeSys LRD - electronic thermal overload relay - 3P - 0.1...0.5 A

LR9D01

### Main

Range	TeSys
Product name	TeSys LRD
Device short name	LR9D
Product or component type	Electronic thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D09 LC1D25 LC1D32 LC1D12 LC1D38 LC1D18
Thermal overload class	Class 5...30
Thermal protection adjustment range	0.1...0.5 A
Power consumption in W	300 mW
Mounting support	Under contactor Plate, with specific accessories Rail, with specific accessories

### Complementary

[Ue] rated operational voltage	690 V for power circuit 660 V for signalling circuit
[Ui] rated insulation voltage	Power circuit: 1000 V Signalling circuit: 690 V
Tripping threshold	1.25 I <sub>n</sub> conforming to IEC 60947-4-1
Control type	Red push-button: stop and manual reset White 2 microswitches: adjustable trip class Red knob: automatic reset White dial: full-load current adjustment
Time range	1.5...4 min - automatic reset time
[I <sub>th</sub> ] conventional free air thermal current	5 A for signalling circuit
Associated fuse rating	5 A gG for signalling circuit 5 A BS for signalling circuit
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Phase difference > 40% 3 s conforming to IEC 60947-4-1
Electromagnetic compatibility	Surge withstand: 2 kV common mode conforming to IEC 61000-4-5 Resistance to electrostatic discharge: 8 kV conforming to IEC 61000-4-2

Immunity to radiated radio-electrical interference: 10 V/m conforming to IEC 61000-4-3  
 Immunity to fast transients: 2 kV conforming to IEC 61000-4-4

<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end Power circuit: screw clamp terminals 1 cable 16 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end
<b>Tightening torque</b>	Control circuit: 0.8 N.m on screw clamp terminals Power circuit: 3.1 N.m on screw clamp terminals
<b>Height</b>	72.5 mm
<b>Width</b>	45 mm
<b>Depth</b>	79.9 mm
<b>Net weight</b>	0.18 kg

## Environment

<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>	IECEE CB Scheme UL CSA CCC
<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<b>Ambient air temperature for operation</b>	-25...70 °C conforming to IEC 60255-8
<b>Ambient air temperature for storage</b>	-55...80 °C
<b>Operating altitude</b>	2000 m without derating
<b>Mechanical robustness</b>	Vibrations 10...150 Hz: 6 Gn conforming to IEC 60068-2-6 Shocks 11 ms: 15 gn conforming to IEC 60068-2-7
<b>Dielectric strength</b>	6 kV 50 Hz conforming to IEC 60255-5

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	209 g
<b>Package 1 Height</b>	5.5 cm
<b>Package 1 width</b>	7.5 cm
<b>Package 1 Length</b>	9.1 cm
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	30
<b>Package 2 Weight</b>	6.725 kg
<b>Package 2 Height</b>	15 cm
<b>Package 2 width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	480
<b>Package 3 Weight</b>	121.86 kg
<b>Package 3 Height</b>	50 cm

Package 3 width	80 cm
Package 3 Length	60 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
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: Cancer and Reproductive Harm - <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>