



## 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 LC1D12 LC1D18 LC1D25 LC1D32 LC1D38
Thermal overload class	Class 5...30
Thermal protection adjustment range	0.1...0.5 A
Power consumption in W	<= 300 mW
Mounting support	Plate with specific accessories Rail with specific accessories Under contactor

## Complementary

[Ue] rated operational voltage	690 V for power circuit 660 V for signalling circuit
[Ui] rated insulation voltage	1000 V power circuit 690 V signalling circuit
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 for automatic reset mode White dial for full-load current adjustment mode
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 signalling circuit 5 A BS 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 IEC 61000-4-5 Resistance to electrostatic discharge 8 kV IEC 61000-4-2 Immunity to radiated radio-electrical interference 10 V/m IEC 61000-4-3 Immunity to fast transients 2 kV IEC 61000-4-4
Connections - terminals	Power circuit : screw clamp terminals 1 cable 16 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end Control circuit : screw clamp terminals 1 cable 2.5 mm <sup>2</sup> - cable stiffness: solid or flexible - without cable end
Tightening torque	Control circuit : 0.8 N.m - on screw clamp terminals Power circuit : 3.1 N.m - on screw clamp terminals
Height	72.5 mm
Width	45 mm
Depth	79.9 mm
Product weight	0.18 kg

## Environment

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

standards	IEC 60947-4-1 CSA C22.2 GB 14048.4 UL 60947-4-1
product certifications	CCC CSA TÜV UL
IP degree of protection	IP20 front face conforming to IEC 60529 IP20 front face conforming to VDE 0106
ambient air temperature for operation	-25...70 °C conforming to IEC 60255-8
ambient air temperature for storage	-55...80 °C
operating altitude	2000 m without derating
mechanical robustness	Vibrations 10...150 Hz 6 Gn IEC 60068-2-6 IEC 60068-2-6 Shocks 11 ms 15 gn IEC 60068-2-7 IEC 60068-2-7
dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1520 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available