



### Main

Range	TeSys
Product name	TeSys LRD
Product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D25 LC1D18 LC1D38 LC1D32
Network type	AC DC
Overload tripping class	Class 20 conforming to IEC 60947-4-1
Thermal protection adjustment range	12...18 A
[Ui] rated insulation voltage	600 V power circuit conforming to CSA 600 V power circuit conforming to UL 690 V power circuit 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
[I <sub>th</sub> ] conventional free air thermal current	5 A for signalling circuit
Permissible current	3 A at 120 V AC-15 for signalling circuit 0.22 A at 125 V DC-13 for signalling circuit
[U <sub>e</sub> ] rated operational voltage	690 V AC 0...400 Hz
Associated fuse rating	20 A aM 35 A gG 32 A BS88

[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0
Control type	Red push-button stop Blue push-button for reset mode
Temperature compensation	-20...60 °C
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 1.5...10 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 1...6 mm <sup>2</sup> - cable stiffness: solid - without cable end
Tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals Power circuit : 1.7 N.m - on screw clamp terminals
Width	45 mm
Depth	76.1 mm
Product weight	0.144 kg

## Environment

Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20...60 °C without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-60...70 °C
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations 3 Gn IEC 60068-2-6 Shocks 15 Gn for 11 ms IEC 60068-2-7
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
Standards	EN 60947-5-1 CSA C22.2 No 14 UL 508 ATEX D 94/9/CE IEC 60947-5-1 IEC 60947-4-1 EN 60947-4-1
Product certifications	CSA EAC UL ATEX INERIS ABS

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1338 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations