



Main

Range of product	TeSys D thermal overload relays
Product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D80 LC1D95
Network type	AC DC
Overload tripping class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	63...80 A
[Uij] rated insulation voltage	600 V power circuit conforming to UL 600 V power circuit conforming to CSA 1000 V power circuit conforming to IEC 60947-4-1

Complementary

Network frequency	0...400 Hz
Mounting support	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	0.06 A at 440 V DC-13 for power circuit 0.72 A at 500 V AC-15 for power circuit
[U <sub>e</sub> ] rated operational voltage	690 V
[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
Temperature compensation	-30...60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> - cable stiffness: solid - 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: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 9 N.m - on screw clamp terminals Control circuit: 1.7 N.m - on screw clamp terminals
Height	123 mm
Width	75 mm
Depth	121 mm
Product weight	0.51 kg
Quantity per set	Set of 10

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance 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.

## Environment

Standards	CSA C22-2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	ATEX INERIS BV CCC CSA DNV GL GOST RINA UL LROS
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP2x conforming to VDE 0106
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
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks 15 Gn for 11 ms IEC 60068-2-7 Vibrations 6 Gn IEC 60068-2-6
Dielectric strength	6 kV at 50 Hz conforming to 60255-5