

# LRD350L

thermal overload relay for motor TeSys -  
37...50A - class 20A

## Main

Range of product	TeSys D
Device short name	LRD
Product or component type	Differential thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D40A...LC1D65A
Network type	AC
Overload tripping class	Class 20 conforming to IEC 60947-4-1
Thermal protection adjustment range	37...50 A
Protection type	BS88 fuse 100 A - for power circuit BS fuse 5 A - for control circuit GB2 circuit breaker 5 A - for control circuit AM fuses 63 A - for power circuit GG fuse 100 A - for power circuit GG fuse 5 A - for control circuit
Connections - terminals	Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors
Quantity per set	Set of 10

## Complementary

Network frequency	<= 400 Hz
Mounting support	Plate with EverLink power terminal block Rail with EverLink power terminal block
Tripping threshold	1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1
Surge withstand	6 kV conforming to IEC 60801-5
[I <sub>th</sub> ] conventional free air thermal current	5 A for control circuit
[U <sub>e</sub> ] rated operational voltage	1000 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1
[U <sub>i</sub> ] 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
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current I 30 % of I <sub>r</sub> on one phase, the others at I <sub>r</sub> conforming to IEC 60947-4-1
Reset	Automatic reset Manual reset
Temperature compensation	-20...60 °C
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 5 N.m - on screw clamp terminals Power circuit: 8 N.m - on screw clamp terminals
Height	70 mm
Width	55 mm
Depth	116 mm
Product weight	0.375 kg

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## Environment

Standards	CSA C22-2 No 14 Directive ATEX 94/9/EC 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 (Det Norske Veritas) GL GOST LROS (Lloyds register of shipping) RINA UL
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP2x conforming to VDE 0106
Ambient air temperature for operation	-40...70 °C with derating conforming to IEC 60947-4-1 -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
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-7
Vibration resistance	6 gn on plate conforming to IEC 60068-2-6
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
RoHS EUR conformity date	0501
RoHS EUR status	Compliant