

# LRD35

thermal overload relay for motor TeSys -  
30...38 A - class 10A



## Main

Range of product	TeSys D
Device short name	LRD
Product or component type	Differential thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D32 LC1D38
Network type	AC
Overload tripping class	Class 10A IEC 60947-4-1
Thermal protection adjustment range	30...38 A
Protection type	BS88 fuse 80 A power circuit BS fuse 5 A control circuit GB2 circuit breaker 5 A control circuit AM fuses 40 A power circuit GG fuse 80 A power circuit GG fuse 5 A control circuit
Connections - terminals	Screw clamp terminals power circuit 1 1,5...10 mm <sup>2</sup> solid without Screw clamp terminals power circuit 1 1...6 mm <sup>2</sup> flexible with Screw clamp terminals control circuit 1 1...2,5 mm <sup>2</sup> flexible without Screw clamp terminals control circuit 2 1...2,5 mm <sup>2</sup> flexible without Screw clamp terminals control circuit 1 1...2,5 mm <sup>2</sup> flexible with Screw clamp terminals control circuit 2 1...2,5 mm <sup>2</sup> flexible with Screw clamp terminals power circuit 1 1,5...10 mm <sup>2</sup> flexible without Screw clamp terminals control circuit 2 1...2,5 mm <sup>2</sup> solid without Screw clamp terminals control circuit 1 1...2,5 mm <sup>2</sup> solid without
Quantity per set	Set of 10

## Complementary

Network frequency	$\leq 400$ Hz
Mounting support	Under contactor
Tripping threshold	1.14 +/- 0.06 I <sub>r</sub> IEC 60947-4-1
Surge withstand	6 kV IEC 60801-5
[I <sub>th</sub> ] conventional free air thermal current	5 A control circuit
[U <sub>e</sub> ] rated operational voltage	1000 V AC 50/60 Hz power circuit IEC 60947-4-1
[U <sub>i</sub> ] rated insulation voltage	600 V power circuit CSA 600 V power circuit UL 1000 V power circuit 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> IEC 60947-4-1
Reset	Automatic reset Manual reset
Temperature compensation	-30...60 °C
Tightening torque	1,7 N.m control circuit screw clamp terminals 2,5 N.m power circuit screw clamp terminals
Height	70 mm
Width	55 mm

Depth	116 mm
Product weight	0,375 kg

## 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 GL GOST LROS (Lloyds register of shipping) RINA UL
Protective treatment	TH IEC 60068
IP degree of protection	IP2x VDE 0106
Ambient air temperature for operation	-40...70 °C with derating IEC 60947-4-1 -20...60 °C without derating IEC 60947-4-1
Ambient air temperature for storage	-60...70 °C
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	15 gn 11 ms IEC 60068-2-7
Vibration resistance	6 gn IEC 60068-2-6
Dielectric strength	6 kV 50 Hz IEC 60255-5
RoHS EUR conformity date	0631
RoHS EUR status	Compliant