



Main

Range of product	TeSys D
Device short name	LRD
Product or component type	Differential thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D80 LC1D95
Network type	AC
Overload tripping class	Class 10A IEC 60947-4-1
Thermal protection adjustment range	80...104 A
Protection type	BS88 fuse 160 A power circuit BS fuse 5 A control circuit GB2 circuit breaker 5 A control circuit AM fuses 100 A power circuit GG fuse 160 A power circuit GG fuse 5 A control circuit
Connections - terminals	Screw clamp terminals control circuit 1 1...2,5 mm ² solid without Screw clamp terminals power circuit 1 4...35 mm ² solid without Screw clamp terminals power circuit 1 4...35 mm ² flexible with Screw clamp terminals control circuit 1 1...2,5 mm ² flexible without Screw clamp terminals control circuit 2 1...2,5 mm ² flexible without Screw clamp terminals control circuit 1 1...2,5 mm ² flexible with Screw clamp terminals control circuit 2 1...2,5 mm ² flexible with Screw clamp terminals power circuit 1 4...35 mm ² flexible without Screw clamp terminals control circuit 2 1...2,5 mm ² solid without
Quantity per set	Set of 10

Complementary

Network frequency	<= 400 Hz
Mounting support	Plate with specific accessories Rail with specific accessories Under contactor
Tripping threshold	1.14 +/- 0.06 I _r IEC 60947-4-1
Surge withstand	6 kV IEC 60801-5
[I _{th}] conventional free air thermal current	5 A control circuit
[U _e] rated operational voltage	1000 V AC 50/60 Hz power circuit IEC 60947-4-1
[U _i] rated insulation voltage	600 V power circuit CSA 600 V power circuit UL 1000 V power circuit IEC 60947-4-1
[U _{imp}] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current I 30 % of I _r on one phase, the others at I _r 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 9 N.m power circuit screw clamp terminals
Height	126 mm

Width	75 mm
Depth	121 mm
Product weight	0,51 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	BV CCC CSA GOST 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	0849
RoHS EUR status	Compliant