



### Main

Range of product	TeSys D
Device short name	LRD
Product or component type	Thermal overload relay
Relay application	Motor protection
Product compatibility	LC1D115 LC1D150
Network type	AC
Overload tripping class	Class 10 IEC 60947-4-1 Class 10A
Signalling function	Alarm
Thermal protection adjustment range	90...150 A
Protection type	BS fuse 5 A control circuit GB2 circuit breaker 5 A control circuit AM fuses 100 A power circuit GG fuse 163 A power circuit GG fuse 5 A control circuit
Connections - terminals	Bars control circuit 1 1...2,5 mm <sup>2</sup> flexible without Bars control circuit 2 1...2,5 mm <sup>2</sup> flexible without Connector control circuit 1 1...2,5 mm <sup>2</sup> flexible without Connector control circuit 2 1...2,5 mm <sup>2</sup> flexible without
Quantity per set	Set of 10

### Complementary

Network frequency	50...60 Hz
Supply voltage limits	17...32 V
Mounting support	Direct on contactor Rail
Tripping threshold	1.05 +/- 0.06 In IEC 60947-4-1 alarm 1.12 +/- 0.06 In IEC 60947-4-1 de-energisation
Surge withstand	6 kV IEC 61000-4-5
[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	8 kV
Phase failure sensitivity	Tripping in 4 s +/- 20 % IEC 60947-4-1
Temperature compensation	-20...70 °C
Current consumption	≤ 5 mA no-load
Switching capacity in mA	0...150 mA
Output overload protection	Self protected
Output short-circuit protection	Self protected
Voltage drop	≤ 2,5 V closed state
Tightening torque	0,45 N.m alarm circuit 1,2 N.m control circuit bars 1,2 N.m control circuit connector 18 N.m control circuit bars 18 N.m control circuit connector
Width	120 mm
Depth	132 mm

Product weight	0,885 kg
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## Environment

Standards	EN 60947-4-1 IEC 255-17 IEC 255-8 IEC 60947-4-1 VDE 0660
Product certifications	CSA 22-2 GOST UL 508
Protective treatment	TH
IP degree of protection	IP20 VDE 0106 IP20 IEC 60529
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	-40...85 °C
Operating altitude	≤ 2000 m without derating
Fire resistance	850 °C IEC 60695-2-1
Shock resistance	13 gn 11 ms IEC 60068-2-7
Vibration resistance	2 gn 5...300 Hz IEC 60068-2-6
Dielectric strength	6 kV 50 Hz IEC 60255-5
Resistance to electrostatic discharge	8 kV in air IEC 61000-4-2
Resistance to radiated fields	10 V/m IEC 61000-4-3
Resistance to fast transients	2 kV IEC 61000-4-4
RoHS EUR conformity date	1Q2009
RoHS EUR status	Will be compliant