



### Main

Range	TeSys
Product name	TeSys LRD
Product or component type	Electronic thermal overload relay
Device short name	LR9D
Relay application	Motor protection
Product compatibility	LC1D115 LC1D150 NSX circuit breaker
Network type	AC
Overload tripping class	Class 10/20 conforming to IEC 60947-4-1
Signalling function	Alarm
Thermal protection adjustment range	90...150 A
[Ui] 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	50...60 Hz
[Us] rated supply voltage	24 V DC
Supply voltage limits	17...32 V
Mounting support	Rail Under contactor
Tripping threshold	1.12 +/- 0.06 In de-energisation conforming to IEC 60947-4-1 1.05 +/- 0.06 In alarm conforming to IEC 60947-4-1
[Ith] conventional free air thermal current	5 A for signalling circuit
[Ue] rated operational voltage	690 V 50...60 Hz
Associated fuse rating	5 A gG for signalling circuit
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 61000-4-5
Phase failure sensitivity	Tripping in 4 s +/- 20 % conforming to IEC 60947-4-1
Control type	Blue push-button for reset mode Red push-button stop
Temperature compensation	-20...60 °C
Switching capacity in mA	0...150 mA
Voltage drop	<= 2.5 V closed state
Connections - terminals	Alarm circuit : screw clamp terminals 1 cable(s) 0.5...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 0.5...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 0.5...1.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : bars
Tightening torque	Control circuit : 1.2 N.m - on screw clamp terminals Power circuit : 18 N.m - on bars screw : M8 Alarm circuit : 0.45 N.m - on screw clamp terminals
Depth	132 mm
Product weight	0.9 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 UL 508
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-20...60 °C without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-60...70 °C
Operating altitude	<= 2000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Shocks 13 Gn for 11 ms IEC 60068-2-7 Vibrations 2 Gn, 5...300 Hz IEC 60068-2-6
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5