Product data sheet
Characteristics

LRD02
TeSys D thermal overload relays - 0.16...0.25 A - class 10A

Main

Range of product	TeSys D thermal overload relays
Product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D09...LC1D38
Network type	AC DC
Overload tripping class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	0.16...0.25 A
[Ui] rated insulation voltage	690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 600 V power circuit conforming to CSA

Complementary

Network frequency	0...400 Hz
Mounting support	Under contactor
Tripping threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
[Ith] conventional free air thermal current	5 A for signalling circuit
Permissible current	0.22 A at 125 V DC-13 for power circuit 3 A at 120 V AC-15 for power circuit
[Ue] rated operational voltage	690 V
[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0
Temperature compensation	-30...60 °C
Connections - terminals	Power circuit: screw clamp terminals 1 cable(s) 1...6 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 1...4 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 1.5...10 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm² - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals Control circuit: 1.7 N.m - on screw clamp terminals
Width	45 mm
Depth	70 mm
Product weight	0.124 kg
Quantity per set	Set of 10

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Environment

Standards	CSA C22-2 No 14 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 GL GOST RINA UL LROS
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP2x conforming to VDE 0106
Ambient air temperature for operation	-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
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks 15 Gn for 11 ms IEC 60068-2-7 Vibrations 6 Gn IEC 60068-2-6
Dielectric strength	6 kV at 50 Hz conforming to 60255-5