Product data sheet
Characteristics

LRD14
thermal overload relay for motor TeSys - 7...10 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	GV2L03 GV2LE03 LC1D09...LC1D38
Network type	AC
Overload tripping class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	7...10 A
Protection type	BS88 fuse 20 A - for power circuit BS fuse 5 A - for control circuit GB2 circuit breaker 5 A - for control circuit AM fuses 12 A - for power circuit GG fuse 20 A - for power circuit GG fuse 5 A - for control circuit
Connections - terminals	Control circuit: screw clamp terminals 1 cable 1...2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable 1...2.5 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable 1...2.5 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable 1...4 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable 1.5...10 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable 1...6 mm² - cable stiffness: solid - without cable end
Quantity per set	Set of 10

Complementary

Network frequency	<= 400 Hz
Mounting support	Under contactor
Tripping threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
Surge withstand	6 kV conforming to IEC 60801-5
[Ith] conventional free air thermal current	5 A for control circuit
[Ue] rated operational voltage	1000 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1
[Ui] rated insulation voltage	600 V power circuit conforming to CSA 600 V power circuit conforming to UL 1000 V power circuit conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current I 30 % of Ir on one phase, the others at Ir conforming to IEC 60947-4-1
Reset	Automatic reset Manual reset
Temperature compensation	-20...60 °C
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 1.7 N.m - on screw clamp terminals
Height	80 mm

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Width	45 mm
Depth	66 mm
Product weight	0.124 kg

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 GOST RINA UL
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP2x conforming to VDE 0106
Ambient air temperature for operation	-40...70 °C with derating conforming to IEC 60947-4-1 -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
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-7
Vibration resistance	6 gn on plate conforming to IEC 60068-2-6
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
RoHS EUR conformity date	0631
RoHS EUR status	Compliant