

LRD21

TeSys LRD thermal overload relays - 12...18 A - class 10A

Main

Range	TeSys
Product name	TeSys LRD
Product or component type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product compatibility	LC1D32 LC1D38 LC1D25 LC1D18
Network type	DC AC
Overload tripping class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	12...18 A
[Ui] rated insulation voltage	690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to CSA 600 V power circuit conforming to UL

Complementary



Network frequency	0...400 Hz
Mounting support	Rail with specific accessories Plate with specific accessories 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	0.1 A at 250 V DC-13 for signalling circuit 1.5 A at 240 V AC-15 for signalling circuit
[Ue] rated operational voltage	690 V AC 0...400 Hz
[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0

Control type	Red push-button stop Blue push-button for reset mode
Temperature compensation	-20...60 °C
Connections - terminals	Power circuit : screw clamp terminals 1 cable(s) 1...6 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 1.5...10 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - with cable end
Tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals Power circuit : 2.5 N.m - on screw clamp terminals
Width	45 mm
Depth	70 mm
Product weight	0.124 kg
Compatibility code	LRD

Environment

Standards	EN 60947-5-1 CSA C22.2 No 14 IEC 60947-5-1 EN 60947-4-1 ATEX D 94/9/CE UL 508 IEC 60947-4-1
Product certifications	DNV GOST RINA CSA ATEX INERIS LROS GL BV CCC UL
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
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 IEC 60255-5

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0631 - Schneider Electric declaration of conformity  Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available  Product environmental
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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