Product data sheet
Characteristics

LR3D166
TeSys LRD thermal overload relays - 9...13 A - class 10A

Main

Range	TeSys
Product name	TeSys LRD
Product or component type	Non differential thermal overload relay
Device short name	LR3D
Relay application	Motor protection
Product compatibility	LC1D12 LC1D18 LC1D25 LC1D32 LC1D38
Network type	AC DC
Overload tripping class	Class 10A conforming to IEC 60947-4-1
Thermal protection adjustment range	9...13 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 Rail with specific accessories Plate with specific accessories
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 signalling circuit 3 A at 120 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	Blue push-button for reset mode Red push-button stop
Temperature compensation	-20...60 °C
Connection pitch	14.5 mm
Connections - terminals	Power circuit : lugs-ring terminals 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 : 2.3 N.m - on lugs-ring terminals screw : M4 Control circuit : 1.7 N.m - on screw clamp terminals
Width	45 mm
Depth	70 mm
Product weight	0.124 kg

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Environment

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