



Main

Range of product	TeSys D thermal overload relays
Product or component type	Non differential thermal overload relay
Device short name	LR3D
Relay application	Motor protection
Product compatibility	LC1D80 LC1D95
Network type	AC DC
Overload tripping class	Class 20 conforming to IEC 60947-4-1
Thermal protection adjustment range	30...40 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	0...400 Hz
Mounting support	Under contactor
Tripping threshold	1.14 +/- 0.06 I _r conforming to IEC 60947-4-1
[I _{th}] conventional free air thermal current	5 A for signalling circuit
[U _e] rated operational voltage	690 V AC 0...400 Hz
[U _{imp}] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of I _r on two phase, the last one at 0
Temperature compensation	-30...60 °C
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 4...35 mm ² - cable stiffness: flexible - without cable end
Tightening torque	Power circuit: 9 N.m - on screw clamp terminals Control circuit: 1.7 N.m - on screw clamp terminals
Width	75 mm
Depth	121 mm
Product weight	0.535 kg

Environment

Standards	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	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

Contractual warranty

Period	18 months
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