



### Main

Range	TeSys
Product name	TeSys LRD
Product or component type	Differential thermal overload relay
Device short name	LR2D
Relay application	Motor protection
Product compatibility	LC1D80 LC1D95
Network type	DC AC
Thermal protection adjustment range	37...50 A
[Ui] rated insulation voltage	600 V power circuit conforming to CSA 600 V power circuit conforming to UL 690 V power circuit conforming to IEC 60947-4-1

### Complementary

Network frequency	0...400 Hz
Mounting support	Plate with specific accessories Rail with specific accessories Under contactor
Tripping threshold	1.14 +/- 0.06 I <sub>r</sub> conforming to IEC 60947-4-1
[I <sub>th</sub> ] conventional free air thermal current	5 A for signalling circuit
Permissible current	0.72 A at 500 V AC-15 for signalling circuit 0.06 A at 440 V DC-13 for signalling circuit
[U <sub>e</sub> ] rated operational voltage	690 V AC 0...400 Hz
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Tripping current 130 % of I <sub>r</sub> 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) 4...35 mm <sup>2</sup> flexible without cable end Power circuit : screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> flexible with cable end Power circuit : screw clamp terminals 1 cable(s) 4...35 mm <sup>2</sup> solid without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible without cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> flexible with cable end

	Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm <sup>2</sup> solid without cable end
Tightening torque	Control circuit : 1.7 N.m on screw clamp terminals Power circuit : 9 N.m on screw clamp terminals
Height	100 mm
Width	75 mm
Depth	121 mm
Product weight	0.535 kg
Compatibility code	LR2D

## Environment

Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	Without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-60...70 °C
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations 6 Gn IEC 60068-2-6 Shocks 15 Gn for 11 ms IEC 60068-2-7
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
Standards	CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 ATEX D 94/9/CE EN 60947-5-1 IEC 60947-5-1 UL 508
Product certifications	CCC DNV GL UL BV GOST LROS (Lloyds register of shipping) CSA RINA ATEX INERIS

## Contractual warranty

Warranty period	18 months
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