# Product data sheet Characteristics

# LRD21

Thermal overload relay, TeSys LRD, 12...18 A, class 10A





#### Main

Mani	
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 LC1D18 LC1D25 LC1D38
Network type	AC DC
Thermal overload class	Class 10A
Thermal protection adjustment range	1218 A
[Ui] rated insulation voltage	Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL Power circuit: 690 V conforming to IEC 60947-4-1

### Complementary

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 LC1D18 LC1D25 LC1D38	
Network type	AC DC	
Thermal overload class	Class 10A	
Thermal protection adjustment range	1218 A	
[Ui] rated insulation voltage	Power circuit: 600 V conforming to CSA Power circuit: 600 V conforming to UL Power circuit: 690 V conforming to IEC 60947-4-1	
Complementary		
Network frequency	0400 Hz	
Mounting support	Plate, with specific accessories Rail, 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	1.5 A at 240 V AC-15 for signalling circuit 0.1 A at 250 V DC-13 for signalling circuit	
[Ue] rated operational voltage	690 V AC 0400 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: reset
Temperature compensation	-2060 °C
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² solid Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² solid
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
Net weight	0.124 kg

### Environment

Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-2060 °C without derating conforming to IEC 60947-4-1
Ambient air temperature for storage	-6070 °C
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations: 6 Gn conforming to IEC 60068-2-6 Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7
Dielectric strength	6 kV at 50 Hz conforming to IEC 60255-5
Standards	UL 508 IEC 60947-4-1 ATEX D 94/9/CE IEC 60947-5-1 EN 60947-5-1 CSA C22.2 No 14 EN 60947-4-1
Product certifications	GOST RINA UL GL CCC BV LROS (Lloyds register of shipping) ATEX INERIS CSA DNV

### **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	147 g
Package 1 Height	5 cm
Package 1 width	7.8 cm
Package 1 Length	8.8 cm
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Weight	3.842 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Weight	72.228 kg
Package 3 Height	80 cm

Package 3 width	80 cm
Package 3 Length	60 cm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### Contractual warranty

Warranty	18 months