# **Product datasheet**

Specification





# TeSys LRD thermal overload relays - 12...18 A - class 20

LRD21L

EAN Code: 3606480609619

#### Main

Range	TeSys TeSys Deca	
Product Name	TeSys LRD TeSys Deca	
Product Or Component Type	Differential thermal overload relay	
Device Short Name	LRD	
Relay Application	Motor protection	
Product Compatibility	LC1D25 LC1D18 LC1D32 LC1D38	
Network Type	DC AC	
Thermal Overload Class	Class 20 conforming to IEC 60947-4-1	
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
Auxiliary Contact Composition	1 NO + 1 NC
[Ith] Conventional Free Air Thermal Current	5 A for signalling circuit
Permissible Current	3 A at 120 V AC-15 for signalling circuit 0.22 A at 125 V DC-13 for signalling circuit
[Ue] Rated Operational Voltage	690 V AC 0400 Hz for power circuit conforming to IEC 60947-4-1
Associated Fuse Rating	4 A gG for signalling circuit 4 A BS for signalling circuit
[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 without cable end 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 without cable end	
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals Power circuit: 1.7 N.m - on screw clamp terminals	
Height	66 mm	
Width	45 mm	
Depth	76 mm	
Net Weight	0.144 kg	

## **Environment**

Climatic Withstand	conforming to IACS E10	
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	
Mechanical Robustness	Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6	
Dielectric Strength	1.89 kV at 50 Hz conforming to IEC 60947-1	
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 EN 50495	
Product Certifications	IEC UL CSA EAC ABS ATEX INERIS UKCA	

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.3 cm
Package 1 Width	7.2 cm
Package 1 Length	4.5 cm
Package 1 Weight	174.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	24
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.624 kg

Unit Type Of Package 3	P12
Number Of Units In Package 3	768
Package 3 Height	80.0 cm
Package 3 Width	75.0 cm
Package 3 Length	120.0 cm
Package 3 Weight	111.36 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

✓ Toxic Heavy Metal Free
 ✓ Mercury Free
 ✓ Rohs Exemption Information

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information