



Main

Range	TeSys
Product name	TeSys LRD TeSys Deca
Product or Component Type	Differential thermal overload relay
Device short name	LRD
Relay application	Motor protection
Product Compatibility	LC1D12 LC1D25 LC1D18 LC1D32 LC1D09
Network type	DC AC
Thermal overload class	Class 20 IEC 60947-4-1
Thermal protection adjustment range	5.5...8 A
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 690 V 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 _r IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
[I _{th}] conventional free air thermal current	5 A signalling circuit
Permissible current	1.5 A 240 V AC-15 signalling circuit 0.1 A 250 V DC-13 signalling circuit
[U _e] rated operational voltage	690 V AC 0...400 Hz power circuit IEC 60947-4-1
Associated fuse rating	4 A gG signalling circuit 4 A BS signalling circuit
[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

Control type	Red push-button stop Blue push-button reset
Temperature compensation	-4...140 °F (-20...60 °C)
Connections - terminals	Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) solid without cable end Power circuit screw clamp terminals 1 0.00...0.02 in ² (1.5...10 mm ²) flexible without cable end Power circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) flexible with cable end Power circuit screw clamp terminals 1 0.00...0.01 in ² (1...6 mm ²) solid without cable end
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Power circuit 16.37 lbf.in (1.85 N.m) screw clamp terminals
Width	1.77 In (45 mm)
Depth	3.62 In (92 mm)
Net Weight	0.42 Lb(US) (0.19 kg)

Environment

Climatic withstand	IACS E10
IP degree of protection	IP20 conforming to IEC 60529
Ambient air temperature for operation	-4...140 °F (-20...60 °C) without derating IEC 60947-4-1
Ambient Air Temperature for Storage	-76...158 °F (-60...70 °C)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
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	1.89 KV 50 Hz 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
Product Certifications	IEC UL CSA EAC DNV-GL LROS (Lloyds register of shipping)

Ordering and shipping details

Category	22347-CONTACTOR,D-LINE,OVERLOADS-NEW
Discount Schedule	I12
GTIN	3389110146707
Nbr. of units in pkg.	1
Package weight(Lbs)	8.08 Oz (229.0 g)
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.07 In (7.8 cm)
Package 1 width	3.78 In (9.6 cm)
Package 1 Length	2.13 In (5.4 cm)
Unit Type of Package 2	S02

Number of Units in Package 2	25
Package 2 Weight	13.35 Lb(US) (6.057 kg)
Package 2 Height	5.91 In (15.0 cm)
Package 2 width	11.81 In (30.0 cm)
Package 2 Length	15.75 In (40.0 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer - www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
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
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information

Contractual warranty

Warranty	18 months
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Product Life Status :	Commercialised
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TeSys D-Line Class 20 Overload Relay



Key Features

- Direct mounting to contactor: 9 to 32 amp D-Line contactors
- Isolated N/C trip contact and N/O alarm contacts
- Manual or Automatic reset function
- Tamper-resistant window for FLA settings
- Test trip button
- Separate mounting bracket available: catalog number LAD7B105

The Telemecanique TeSys D-Line Class 20 Overload Relay provides a motor control solution for longer acceleration times. As a Class 20 overload relay, the unit trips in 20 seconds when the current is 6 times the lowest setting of the relay. The new relays are designed for direct mounting on TeSys D-Line contactors ranging from 9 to 32 amps. Additionally, each relay comes with a spacer clip to provide stable relay mounting for all contactor sizes.

Selection Information

Below outlines a functional cross reference for the new TeSys Class 20 Overload Relay. The equivalent relay ranges are similar to the previous line.

Current Setting Range (Amperes)	Old Reference Number	New Reference Number
2.4 to 4	LR2D1508	LRD1508
4 to 6	LR2D1510	LRD1510
5.5 to 8	LR2D1512	LRD1512
7 to 10	LR2D1514	LRD1514
9 to 13	LR2D1516	LRD1516
12 to 18	LR2D1521	LRD1521
17 to 25	LR2D1522	LRD1522

Note: The TeSys Class 20 Overload Relay fits ONLY TeSys D-Line Contactors, 9 - 32 amps.