Product datasheet

Specifications

Green Premium™

Thermal overload relay, TeSys Deca, 690VAC, 0.1 to 0.16A, 1NO+1NC, class 10A, for unbalanced loads

LR3D01

Main

Range	TeSys
Product Name	TeSys LRD TeSys Deca
Product Or Component Type	Non differential thermal overload relay
Device Short Name	LR3D
Relay Application	Motor protection
Product Compatibility	LC1D12 LC1D25 LC1D09 LC1D38 LC1D18 LC1D32
Network Type	AC DC
Thermal Overload Class	Class 10A conforming to IEC 60947-4-1
Thermal Protection Adjustment Range	0.1…0.16 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	0...400 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 0...400 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	-20…60 °C

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Connections - Terminals	Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm² solid without cable end Power circuit: screw clamp terminals 1 cable(s) 1.5…10 mm² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 1…4 mm² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1…6 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	70 mm
Net Weight	0.124 kg

Environment

Climatic Withstand	conforming to IACS E10
Ip Degree Of Protection	IP20 conforming to IEC 60529
Ambient Air Temperature For Operation	-20…60 °C 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 conforming to IEC 60068-2-6 Shocks: 15 Gn for 11 ms conforming to IEC 60068-2-7
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 GB/T 14048.4 GB/T 14048.5 EN 50495
Product Certifications	IEC UL CSA CCC EAC BV RINA DNV-GL LROS (Lloyds register of shipping) ATEX INERIS UKCA

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	7.7 cm
Package 1 Length	8.8 cm
Package 1 Weight	147.0 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	3.983 kg

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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