

# LR9D02

Overload relay, TeSys LRD, motor protection, 0.4A to 2A, 3 phase, withstand 6kV impulse, 2kV surge, electronic thermal



## Main

Range	TeSys
Product name	TeSys LRD
Device short name	LR9D
Product or Component Type	Electronic thermal overload relay
Relay application	Motor protection
Product Compatibility	LC1D25 LC1D09 LC1D32 LC1D38 LC1D18 LC1D12
Thermal overload class	Class 5...30
Thermal protection adjustment range	0.4...2 A
Maximum power consumption in W	300 mW
Mounting support	Under contactor Plate, with specific accessories Rail, with specific accessories

## Complementary

[Ue] rated operational voltage	690 V power circuit 660 V signalling circuit
[Ui] rated insulation voltage	Power circuit 1000 V Signalling circuit 690 V
Tripping threshold	1.25 In IEC 60947-4-1
Control type	Red push-button stop and manual reset White 2 microswitches adjustable trip class Red knob automatic reset White dial full-load current adjustment
Time range	1.5...4 min - automatic reset time
[Ith] conventional free air thermal current	5 A signalling circuit
Associated fuse rating	5 A gG for signalling circuit 5 A BS for signalling circuit
[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	Phase difference > 40% 3 s IEC 60947-4-1
Electromagnetic compatibility	Surge withstand 2 kV common mode IEC 61000-4-5 Resistance to electrostatic discharge 8 kV IEC 61000-4-2 Immunity to radiated radio-electrical interference 10 V/m IEC 61000-4-3 Immunity to fast transients 2 kV IEC 61000-4-4
Connections - terminals	Control circuit screw clamp terminals 1 0.004 in <sup>2</sup> (2.5 mm <sup>2</sup> ) solid or flexible - without cable end Power circuit screw clamp terminals 1 0.02 in <sup>2</sup> (16 mm <sup>2</sup> ) solid or flexible - without cable end
Tightening torque	Control circuit 0.8 N.m screw clamp terminals Power circuit 3.1 N.m screw clamp terminals
Height	2.9 in (72.5 mm)
Width	1.8 in (45 mm)
Depth	3.1 in (79.9 mm)
Net Weight	0.40 lb(US) (0.18 kg)

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## Environment

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
Product Certifications	IECEE CB Scheme[RETURN]UL[RETURN]CSA[RETURN]CCC
IP degree of protection	IP20 front face IEC 60529
Ambient air temperature for operation	-13...158 °F (-25...70 °C) IEC 60255-8
Ambient Air Temperature for Storage	-67...176 °F (-55...80 °C)
Operating altitude	6561.68 ft (2000 m) without derating
Mechanical robustness	Vibrations 10...150 Hz6 Gn IEC 60068-2-6 Shocks 11 ms15 gn IEC 60068-2-7
Dielectric strength	6 kV 50 Hz IEC 60255-5

## Ordering and shipping details

Category	US10I1222348
Discount Schedule	0I12
GTIN	3606485420936
Returnability	Yes
Country of origin	CN

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.2 in (5.5 cm)
Package 1 Width	3.0 in (7.5 cm)
Package 1 Length	3.6 in (9.2 cm)
Package 1 Weight	7.3 oz (207.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	14.427 lb(US) (6.544 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	480
Package 3 Height	19.7 in (50.0 cm)
Package 3 Width	31.5 in (80.0 cm)
Package 3 Length	23.6 in (60.0 cm)
Package 3 Weight	268.66 lb(US) (121.86 kg)

## Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov
REACH Regulation	 <a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant with Exemptions
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 Yes
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.