Product data sheet
Characteristics

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
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 for power circuit 660 V for signalling circuit
[Ui] rated insulation voltage	Power circuit: 1000 V Signalling circuit: 690 V
Tripping threshold	1.25 In conforming to 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 for 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 conforming to IEC 60947-4-1
Electromagnetic compatibility	Surge withstand: 2 kV common mode conforming to IEC 61000-4-5 Resistance to electrostatic discharge: 8 kV conforming to IEC 61000-4-2 Immunity to radiated radio-electrical interference: 10 V/m conforming to IEC 61000-4-3 Immunity to fast transients: 2 kV conforming to IEC 61000-4-4
Connections - terminals	Control circuit: screw clamp terminals 1 cable 2.5 mm² - cable stiffness: solid or flexible - withou Power circuit: screw clamp terminals 1 cable 16 mm² - cable stiffness: solid or flexible - without

Tightening torque	Control circuit: 0.8 N.m on screw clamp terminals Power circuit: 3.1 N.m on screw clamp terminals
Height	72.5 Mm
Width	45 Mm
Depth	79.9 Mm
Net weight	0.18 Kg

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 conforming to IEC 60529
Ambient air temperature for operation	-25…70 °C conforming to IEC 60255-8
Ambient air temperature for storage	-55…80 °C
Operating altitude	2000 m without derating
Mechanical robustness	Vibrations 10...150 Hz: 6 Gn conforming to IEC 60068-2-6 Shocks 11 ms: 15 gn conforming to IEC 60068-2-7
Dielectric strength	6 KV 50 Hz conforming to IEC 60255-5

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.500 Cm
Package 1 Width	7.500 Cm
Package 1 Length	9.200 Cm
Package 1 Weight	211.000 G
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	15.000 Cm
Package 2 Width	30.000 Cm
Package 2 Length	40.000 Cm
Package 2 Weight	6.674 Kg

Offer Sustainability

Mercury free	Yes
Sustainable packaging	No
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant By Exemption
End of life manual availability	No need of specific recycling operations
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised