Specifications



electronic overload relay for motor TeSys - 1.2...7 A - 24 V AC/DC

LR97D07B

Main

Device short name	LR97	
Product or component type	Electronic overcurrent relay	
Device application	Protection	
Relay application	Overload Imax > Isetting Sensitivity to phase failure Locked rotor, mechanical jamming I > 3 x Isetting	
Product compatibility	LC1D09D38	
Network type	AC DC	
[Us] rated supply voltage	24 V AC/DC	
Thermal protection adjustment range	1.27 A	
[Ue] rated operational voltage	600 V AC 50/60 Hz for power circuit conforming to CSA 600 V AC 50/60 Hz for power circuit conforming to UL 690 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1	
Quantity per set	Set of 10	

Complementary

Network frequency	5060 Hz	
Mounting support	Direct on contactor	
	Rail	
Tripping threshold	1.26 A	
Surge withstand	6 kV conforming to IEC 61000-4-5	
Contacts type and composition	1 C/O	
[Ith] conventional free air thermal current	3 A for control circuit	
Protection type	BS fuse 3 A - for control circuit	
	GB2 circuit breaker 3 A - for control circuit	
	GG fuse 3 A - for control circuit	
Maximum power	28 W at 110 V DC conforming to IEC 60947	
	28 W at 220 V DC conforming to IEC 60947	
	55 W at 24 V DC conforming to IEC 60947	
	55 W at 48 V DC conforming to IEC 60947	
	140 VA at 48 V AC conforming to IEC 60947	
	360 VA at 110 V AC conforming to IEC 60947	
	360 VA at 220 V AC conforming to IEC 60947	
	70 VA at 24 V AC conforming to IEC 60947	
[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	
[Uimp] rated impulse withstand voltage	6 kV	

Phase failure sensitivity	< 3 s	
Reset	Automatic reset 120 s fixed Electrical by interruption of power supply for minimum 0.1 s Manual reset	
Time range	0.210 s - O-time knob 0.310 s - O-time knob 0.530 s - D-time knob	
Signalling function	2 LEDs	
Connections - terminals	Control circuit: cable 1 x 125 mm ² flexible with cable end Control circuit: cable 1 x 125 mm ² flexible without cable end Power circuit: cable 1 x 14 mm ² flexible without cable end Power circuit: cable 1 x 1.510 mm ² flexible without cable end Power circuit: lug-clamp 1 x 14 mm ² flexible without cable end Power circuit: lug-clamp 1 x 1.510 mm ² flexible without cable end Control circuit: cable 2 x 125 mm ² flexible without cable end Control circuit: cable 2 x 125 mm ² flexible without cable end Control circuit: lug-clamp 1 x 125 mm ² flexible without cable end Control circuit: lug-clamp 1 x 125 mm ² flexible without cable end Control circuit: lug-clamp 1 x 125 mm ² flexible without cable end Control circuit: lug-clamp 2 x 125 mm ² flexible without cable end Control circuit: lug-clamp 2 x 125 mm ² flexible without cable end Control circuit: lug-clamp 2 x 125 mm ² flexible without cable end	
Tightening torque	Control circuit: 0.61.2 N.m on lug-clamp Power circuit: 2 N.m on cable	
Height	67.5 mm	
Width	45 mm	
Depth	67.5 mm	
Net weight	0.172 kg	

Environment

Standards	IEC 60947 IEC 60255-6	
product certifications	GOST CSA UL	
Protective treatment	TH conforming to IEC 60068	
IP degree of protection	IP20 conforming to IEC 60529	
Ambient air temperature for operation	-2560 °C conforming to IEC 60947-4-1	
Ambient air temperature for storage	-3080 °C	
Operating altitude	2000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-7	
Vibration resistance	4 gn conforming to IEC 60068-2-6	
Dielectric strength	2 V 50 Hz conforming to IEC 60255-5	
Resistance to electrostatic discharge	6 kV in indirect mode 8 kV in air	
Resistance to radiated fields	10 V/m level 3	
Resistance to fast transients	2 KV	
Disturbance radiated/conducted	10 V conforming to EN 61000-4-6 Class A conforming to EN 55011	

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1	1
Package 1 Height	5.300 cm
Package 1 Width	7.200 cm
Package 1 Length	7.600 cm
Package 1 Weight	184.400 g
Unit Type of Package 2	S02
Number of Units in Package 2	24
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.561 kg

Contractual warranty

Warranty

18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

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Guide to assess a product's sustainability >

Well-being performance

Mercury Free	
Rohs Exemption Information	Yes
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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins