

Product datasheet

Specifications



Electronic overcurrent relay, TeSys LR97D, 24VAC/DC, 1.2 to 7A, 1C/O

LR97D07B

Main

Device short name	LR97
product or component type	Electronic overcurrent relay
Device application	Protection
relay application	Overload $I_{max} > I_{setting}$ Sensitivity to phase failure Locked rotor, mechanical jamming $I > 3 \times I_{setting}$
Product compatibility	LC1D09...D38
Network type	AC DC
[Us] rated supply voltage	24 V AC/DC
Thermal protection adjustment range	1.2...7 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	50...60 Hz
Mounting support	Direct on contactor Rail
Tripping threshold	1.2...6 A
Surge withstand	6 kV conforming to IEC 61000-4-5
Contacts type and composition	1 C/O
[I _{th}] 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
[U _{imp}] 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	0.2...10 s - O-time knob 0.3...10 s - O-time knob 0.5...30 s - D-time knob
Signalling function	2 LEDs
Connections - terminals	Control circuit: cable 1 x 1...25 mm ² flexible with cable end Control circuit: cable 1 x 1...25 mm ² flexible without cable end Power circuit: cable 1 x 1...4 mm ² flexible with cable end Power circuit: cable 1 x 1.5...10 mm ² flexible without cable end Power circuit: lug-clamp 1 x 1...4 mm ² flexible with cable end Power circuit: lug-clamp 1 x 1.5...10 mm ² flexible without cable end Control circuit: cable 2 x 1...25 mm ² flexible with cable end Control circuit: cable 2 x 1...25 mm ² flexible without cable end Control circuit: lug-clamp 1 x 1...25 mm ² flexible with cable end Control circuit: lug-clamp 1 x 1...25 mm ² flexible without cable end Control circuit: lug-clamp 2 x 1...25 mm ² flexible with cable end Control circuit: lug-clamp 2 x 1...25 mm ² flexible without cable end
Tightening torque	Control circuit: 0.6...1.2 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	-25...60 °C conforming to IEC 60947-4-1
Ambient air temperature for storage	-30...80 °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
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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
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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-CO₂ 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 >](#)

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