

Electronic overcurrent relay, TeSys LR97D, 24VAC/DC, 20 to 38A, 1C/O

LR97D38B

Main

Device short name	LR97
product or component type	Electronic overcurrent relay
Device application	Protection
relay application	Sensitivity to phase failure Overload Imax > Isetting Locked rotor, mechanical jamming I > 3 x Isetting
Product compatibility	LC1D25D38
Network type	DC AC
[Us] rated supply voltage	24 V AC/DC
Thermal protection adjustment range	2038 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	2034 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	<3s
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 mm²flexible with cable end Control circuit: cable 1 x 125 mm²flexible without cable end Control circuit: cable 2 x 125 mm²flexible without cable end Control circuit: lug-clamp 1 x 125 mm²flexible with cable end Control circuit: lug-clamp 1 x 125 mm²flexible without cable end Control circuit: lug-clamp 2 x 125 mm²flexible with cable end Control circuit: lug-clamp 2 x 125 mm²flexible without cable end Control circuit: cable 2 x 125 mm²flexible without cable end Control circuit: cable 1 x 16 mm²flexible without cable end Power circuit: cable 1 x 2.510 mm²flexible with cable end Power circuit: lug-clamp 1 x 16 mm²flexible without cable end Power circuit: lug-clamp 1 x 2.510 mm²flexible with 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 60255-6 IEC 60947
Product certifications	CSA UL GOST
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	5.0 cm
Package 1 Width	6.9 cm
Package 1 Length	7.6 cm
Package 1 Weight	175.0 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	4.664 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.

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