Product data sheet
Characteristics

LR97D25B
Electronic overcurrent relay, TeSys LR97D, 24VAC/DC, 5 to 25A, 1C/O



Main

Device short name	LR97
Product or component type	Electronic overcurrent relay
Device application	Protection
Relay application	Overload Imax > Isetting Locked rotor, mechanical jamming I > 3 x Isetting Sensitivity to phase failure
Product compatibility	LC1D09...D38
Network type	AC DC
[Us] rated supply voltage	24 V AC/DC
Thermal protection adjustment range	5…25 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	5...21 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	0.2...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 mm²flexible with cable end Control circuit: cable 1 x 1…25 mm²flexible without cable end Power circuit: cable 1 x 1…4 mm²flexible with cable end Power circuit: cable 1 x 1.5…10 mm²flexible without cable end Power circuit: lug-clamp 1 x 1…4 mm²flexible with cable end Power circuit: lug-clamp 1 x 1.5…10 mm²flexible without cable end Control circuit: cable 2 x 1…25 mm²flexible with cable end Control circuit: cable 2 x 1…25 mm²flexible without cable end Control circuit: lug-clamp 1 x 1…25 mm²flexible with cable end Control circuit: lug-clamp 1 x 1…25 mm²flexible without cable end Control circuit: lug-clamp 2 x 1…25 mm²flexible with cable end Control circuit: lug-clamp 2 x 1…25 mm²flexible 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	UL[RETURN]GOST[RETURN]CSA
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
Number of Units in Package 1	1
Package 1 Height	5.200 Cm
Package 1 Width	7.200 Cm
Package 1 Length	7.700 Cm
Package 1 Weight	176.000 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	4.680 Kg

Offer Sustainability

Recyclability potential, in %	31
Total lifecycle Carbon footprint	45 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3.4403983892225396
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1794710640105326
Carbon footprint of the distribution phase [A4]	0.2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0013757119469351951
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	41.57609048049472
Carbon footprint of the use phase [B2, B3, B4, B6]	42 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.24779990989293696
Carbon footprint of the end-of-life phase [C1 to C4]	0.2 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	45
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony tr
End of life manual availability	End Of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised