

Product data sheet Characteristics

LR97D25M7

electronic overload relay for motor TeSys - 5...25 A - 200...240 V AC



Main Range **TeSys** Product name TeSys D LR97 Device short name Product or component Electronic overcurrent relay type Relay application Overload Imax > Isetting Locked rotor, mechanical jamming I > 3 x Isetting Sensitivity to phase failure Product compatibility LC1D09...D38 Network type AC [Us] rated supply 200...240 V AC voltage Thermal protection 5...25 A adjustment range 600 V AC 50/60 Hz for power circuit conforming to [Ue] rated operational voltage 600 V AC 50/60 Hz for power circuit conforming to 690 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1

Set of 10

Complementary

Network frequency	5060 Hz
Mounting support	Direct on contactor Rail
Tripping threshold	521 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

Quantity per set

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 Power circuit: cable 1 x 14 mm²flexible with cable end Power circuit: cable 1 x 14 mm²flexible without cable end Power circuit: lug-clamp 1 x 14 mm²flexible with cable end Power circuit: lug-clamp 1 x 14 mm²flexible without cable end Control circuit: cable 2 x 125 mm²flexible with 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
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[RETURN]UL[RETURN]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	5.5 cm
Package 1 Width	7.2 cm
Package 1 Length	7.7 cm
Package 1 Weight	195.0 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	5.135 kg
Unit Type of Package 3	PAL
Number of Units in Package 3	384
Package 3 Height	77.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	85.668 kg

Offer Sustainability

REACh Declaration
Compliant with Exemptions
Yes
☐ China RoHS Declaration
₫Yes
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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