

Product data sheet Characteristics

LR97D38M7

electronic overload relay for motor TeSys -20...38 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 Sensitivity to phase failure Locked rotor, mechanical jamming I > 3 x Isetting Product compatibility LC1D25...D38 Network type AC [Us] rated supply 200...240 V AC voltage Thermal protection 20...38 A adjustment range [Ue] rated operational 600 V AC 50/60 Hz for power circuit conforming to 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 Quantity per set

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
[lth] 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 60947 IEC 60255-6
Product certifications	CSA GOST 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 Weight	181 g	
Package 1 Height	5.3 cm	
Package 1 width	7.7 cm	
Package 1 Length	7.2 cm	

Offer Sustainability

REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
China RoHS Regulation		

Circularity Profile	End Of Life Information
WEEE	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