## LR97D38M7

electronic overload relay for motor TeSys - 20...38 A - 200...240 V AC



## Main

Range	TeSys
Product name	TeSys D
Device short name	LR97
Product or component type	Electronic overcurrent relay
Relay application	Locked rotor, mechanical jamming I > 3 x Isetting Overload Imax > Isetting Sensitivity to phase failure
Product compatibility	LC1D25D38
Network type	AC
[Us] rated supply voltage	200240 V AC
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

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	600 V power circuit conforming to CSA 600 V power circuit conforming to UL 690 V power circuit 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 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit : cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit : cable 2 cable 125 mm² - cable stiffness: flexible - without cable end

Control circuit: lug-clamp 1 cable 1...25 mm² - cable stiffness: flexible - with cable

	Control circuit: lug-clamp 1 cable 125 mm² - cable stiffness: flexible - without cable end
	Control circuit: lug-clamp 2 cable 125 mm <sup>2</sup> - cable stiffness: flexible - with cable end
	Control circuit: lug-clamp 2 cable 125 mm² - cable stiffness: flexible - without cable end
	Control circuit: cable 2 cable 125 mm <sup>2</sup>
	Power circuit: cable 1 cable 16 mm² - cable stiffness: flexible - without cable end Power circuit: cable 1 cable 2.510 mm² - cable stiffness: flexible - with cable end Power circuit: lug-clamp 1 cable 16 mm² - cable stiffness: flexible - without cable end Power circuit: lug-clamp 1 cable 2.510 mm² - cable stiffness: flexible - 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
Product weight	

## **Environment**

standards	IEC 60255-6	
	IEC 60947	
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 at 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	

