## LR97D07M7

electronic overload relay for motor TeSys - 1.2...7 A - 200...240 V AC



## Main

TVI CALL	
Commercial Status	Commercialised
Range of product	TeSys
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	LC1D09D38
Network type	AC
[Us] rated supply voltage	200240 V AC
Thermal protection adjustment range	1.27 A
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit conforming to IEC 60947-4-1 600 V AC 50/60 Hz for power circuit conforming to UL 600 V AC 50/60 Hz for power circuit conforming to CSA
Quantity per set	Set of 10

## Complementary

Complementary	
Network frequency	5060 Hz
Mounting support	Rail Direct on contactor
Tripping threshold	1.26 A
Surge withstand	6 kV conforming to IEC 61000-4-5
Contacts type and composition	1 NC 1 NO
[lth] conventional free air thermal current	3 A for control circuit
Protection type	GG fuse 3 A - for control circuit GB2 circuit breaker 3 A - for control circuit BS fuse 3 A - for control circuit
Maximum power	70 VA at 24 V AC conforming to IEC 60947 360 VA at 220 V AC conforming to IEC 60947 360 VA at 110 V AC conforming to IEC 60947 140 VA at 48 V AC conforming to IEC 60947 55 W at 48 V DC conforming to IEC 60947 55 W at 24 V DC conforming to IEC 60947 28 W at 220 V DC conforming to IEC 60947 28 W at 110 V DC conforming to IEC 60947
[Ui] rated insulation voltage	690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 600 V power circuit conforming to CSA
[Uimp] rated impulse withstand voltage	6 kV
Phase failure sensitivity	<3s
Reset	Manual reset Electrical by interruption of power supply for minimum 0.1 s Automatic reset 120 s fixed
Time range	0.530 s - D-time knob 0.310 s - O-time knob 0.210 s - O-time knob
Signalling function	2 LEDs

end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: lug-clamp 1 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: lug-clamp 1 cable 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: lug-clamp 1 cable 14 mm² - cable stiffness: flexible - with cable end Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Power 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 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: 2 N.m - on cable Control circuit: 2 N.m - on lug-clamp  Height  67.5 mm  Width Product weight  0.172 kg	Connections - terminals	Control circuit: lug-clamp 2 cable 125 mm² - cable stiffness: flexible - without
end Control circuit: Lug-clamp 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: Lug-clamp 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - without cable end Power circuit: Lug-clamp 1 cable 14 mm² - cable stiffness: flexible - without cable end Power circuit: Lug-clamp 1 cable 14 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: 2 Mm - on cable Control circuit: 3 Mm - on lug-clamp  Height 67.5 mm  Betwire  Environment  Environment  Environment  Environment  Environment  Environment  Environment  The conforming to IEC 60255-6 IEC 60347  Product certifications CSA GOST UL  Protective treatment The conforming to IEC 60068  IP20 conforming to IEC 60089  Anbient air temperature for operation Ambient air temperature for storage 3080 °C Conforming to IEC 60089-2-1  Shock resistance 15 gn 11 ms conforming to IEC 60089-2-7  Vibration resistance 15 gn 11 ms conforming to IEC 60089-2-7  Vibration resistance 15 gn 11 ms conforming to IEC 60082-7  Vibration resistance 16 kV in indirect mode 8 kV in indirect mode 8 kV in indirect mode 16 kV in indirect mode 17 kV indirections in the indirection of the indirection of the indirection of the indirection of the indirect		
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Control circuit. lug-clamp 1 cable 125 mm² - cable stiffness: flexible - with oable end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - without cable end Power circuit: lug-clamp 1 cable 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: lug-clamp 1 cable 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end 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 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end cable 125 mm² - cable stiffness: flexible - without cable end Control cable 125 mm² - cable stiffness: flexible - without cable end cable 125 mm² - cable stiffness: flexible - without cable end cable 125 mm² - cable stiffness: flexible - without cable end cable 125 mm² - cable stiffness: flexible - without cable end ca		· ·
end Control circuit: cable 2 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: lug-clamp 1 cable 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: lug-clamp 1 cable 14 mm² - cable stiffness: flexible - without cable end Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Control circuit cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Control circuit cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: 2 N m - on cable Control circuit: 2 N m - on cable Control circuit: 0.61.2 N m - on lug-clamp  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 IP2 degree of protection IP20 conforming to IEC 600529 Ambient air temperature for operation Ambient air temperature for operation Personal conforming to IEC 60088-2-1 Shock resistance 15 gn 11 ms conforming to IEC 60088-2-1 Shock resistance 15 gn 11 ms conforming to IEC 60088-2-6 IP1 re resistance 15 gn 11 ms conforming to IEC 60088-2-6 IP1 resistance 15 gn 11 ms conforming to IEC 60088-2-7 Vibration resistance 15 gn 11 ms conforming to IEC 60088-2-6 IP1 resistance 15 gn 11 ms conforming to IEC 60088-2-6 IP1 resistance 15 gn 11 ms conforming to IEC 60088-2-6 IP1 resistance 15 gn 11 ms conforming to IEC 60088-2-7 Vibration resistance 2 V at 50 Hz conforming to IEC 60088-2-5 Resistance to electrostatic discharge 8 kV in air Resistance to radiated fields 10 V m level 3 Resistance to fast transients 2 kV Disturbance radiated/conducted Control circuit: cable 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 12 mm²		Control circuit: lug-clamp 1 cable 125 mm² - cable stiffness: flexible - with cable
Power circuit: Lug-clamp 1 cable 1.510 mm² - cable stiffness: flexible - without cable end Power circuit: Lug-clamp 1 cable 14 mm² - cable stiffness: flexible - with cable end end Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - without cable end Power circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexibl		
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end Control circuit: cable 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: 28 nm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Control cable 1 localle stiffness: flexible - with cable end Control cable 1 localle stiffness: flexible - with cable end Control cable 1 localle stiffness: flexible end Control cable stiffness: flexible end Control cable 1 localle stiffness: flexible end Control cable stiffness: flexible end Control cable stiffness: flexible end Control cable 1 localle stiffness: flexible end Control cable stiffness: flexible end Con		
Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: 2 N.m - on cable Control circuit: 0.61.2 N.m - on lug-clamp  Height 67.5 mm  Width 45 mm  Depth 67.5 mm  Product weight 0.172 kg  Environment  Standards EC 60255-6 EC 60947  Product certifications CSA GOST UL  Protective treatment TH conforming to IEC 60068  IP degree of protection IP20 conforming to IEC 600529  Ambient air temperature for operation 2-2560 °C conforming to IEC 60947-4-1  Ambient air temperature for storage 3080 °C Conforming to IEC 6098-2-1  Shock resistance 515 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 radiated fields 10 V/m level 3  Resistance to radiated fields 10 V/m level 3  Resistance and a conforming to EN 55011  10 V conforming to EN 55011		
Tightening torque Power circuit: 2 N.m - on cable Control circuit: 0.61.2 N.m - on lug-clamp  Height 67.5 mm  Width 45 mm  Depth 67.5 mm  Product weight 0.172 kg  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 350 °C conforming to IEC 60068-2-1  Shock resistance 550 nc 150 nc 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 60068-2-6  Besistance to electrostatic discharge 8 kV in air 6 kV in indirect mode  Resistance to radiated fields 10 V/m level 3  Resistance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty		Power circuit: cable 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - without cable
Control circuit: 0.61.2 N.m - on lug-clamp		Control circuit: cable 1 cable 125 mm² - cable stiffness: flexible - with cable end
Vidith	Tightening torque	
Depth 67.5 mm Product weight 0.172 kg  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 60068-2-1  Shock resistance 15 gn 11 ms conforming to IEC 60068-2-7  Vibration resistance 4 gn conforming to IEC 60068-2-7  Dielectric strength 2 V at 50 Hz conforming to IEC 60055-5  Resistance to electrostatic discharge 8 kV in air 6 kV in indirect mode  Resistance radiated fields 10 V/m level 3  Resistance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Height	67.5 mm
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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 8 kV in air 6 kV in indirect mode  Resistance to fast transients 2 kV  Disturbance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6	Depth	67.5 mm
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 8 kV in air 6 kV in indirect mode  Resistance to radiated fields 10 V/m level 3  Resistance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Product weight	0.172 kg
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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 8 kV in air 6 kV in indirect mode  Resistance to radiated fields 10 V/m level 3 Resistance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6		IEC 60947
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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 8 kV in air 6 kV in indirect mode  Resistance to radiated fields 10 V/m level 3 Resistance to fast transients 2 kV  Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6	IP degree of protection	IP20 conforming to IEC 60529
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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  8 kV in air 6 kV in indirect mode  Resistance to radiated fields  10 V/m level 3  Resistance to fast transients  2 kV  Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Operating altitude	2000 m
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 8 kV in air 6 kV in indirect mode  Resistance to radiated fields 10 V/m level 3  Resistance to fast transients 2 kV  Disturbance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Fire resistance	850 °C conforming to IEC 60695-2-1
Dielectric strength  2 V at 50 Hz conforming to IEC 60255-5  Resistance to electrostatic discharge  8 kV in air 6 kV in indirect mode  Resistance to radiated fields  10 V/m level 3  Resistance to fast transients  2 kV  Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Shock resistance	15 gn 11 ms conforming to IEC 60068-2-7
Resistance to electrostatic discharge  8 kV in air 6 kV in indirect mode  Resistance to radiated fields  10 V/m level 3  Resistance to fast transients  2 kV  Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Vibration resistance	4 gn conforming to IEC 60068-2-6
Resistance to radiated fields 10 V/m level 3  Resistance to fast transients 2 kV  Disturbance radiated/conducted Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Dielectric strength	2 V at 50 Hz conforming to IEC 60255-5
Resistance to fast transients  2 kV  Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Resistance to electrostatic discharge	
Disturbance radiated/conducted  Class A conforming to EN 55011 10 V conforming to EN 61000-4-6  Contractual warranty	Resistance to radiated fields	10 V/m level 3
10 V conforming to EN 61000-4-6  Contractual warranty	Resistance to fast transients	2 kV
·	Disturbance radiated/conducted	
	Contractual warranty	
		10 months

