

# Product datasheet

Specifications



## Electronic overcurrent relay, TeSys LR97D, 48VAC/DC, 5 to 25A, 1C/O

LR97D25E

⚠ Discontinued on: 15-Mar-2023

⚠ End-of-service on: 15-Jun-2023

⚠ Discontinued

### Main

Device Short Name	LR97
Product Or Component Type	Electronic overcurrent relay
Device Application	Protection
Relay Application	Overload $I_{max} > I_{setting}$ Sensitivity to phase failure Locked rotor, mechanical jamming $I > 3 \times I_{setting}$
Product Compatibility	LC1D09...D38
Network Type	DC AC
[Us] Rated Supply Voltage	48 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

<b>[Uimp] Rated Impulse Withstand Voltage</b>	6 kV
<b>Phase Failure Sensitivity</b>	< 3 s
<b>Reset</b>	Automatic reset 120 s fixed Electrical by interruption of power supply for minimum 0.1 s Manual reset
<b>Time Range</b>	0.2...10 s - O-time knob 0.3...10 s - O-time knob 0.5...30 s - D-time knob
<b>Signalling Function</b>	2 LEDs
<b>Connections - Terminals</b>	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
<b>Tightening Torque</b>	Control circuit: 0.6...1.2 N.m on lug-clamp Power circuit: 2 N.m on cable
<b>Height</b>	67.5 mm
<b>Width</b>	45 mm
<b>Depth</b>	67.5 mm
<b>Net Weight</b>	0.172 kg

## Environment

<b>Standards</b>	IEC 60255-6 IEC 60947
<b>Product Certifications</b>	GOST UL CSA
<b>Protective Treatment</b>	TH conforming to IEC 60068
<b>Ip Degree Of Protection</b>	IP20 conforming to IEC 60529
<b>Ambient Air Temperature For Operation</b>	-25...60 °C conforming to IEC 60947-4-1
<b>Ambient Air Temperature For Storage</b>	-30...80 °C
<b>Operating Altitude</b>	2000 m
<b>Fire Resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Shock Resistance</b>	15 gn 11 ms conforming to IEC 60068-2-7
<b>Vibration Resistance</b>	4 gn conforming to IEC 60068-2-6
<b>Dielectric Strength</b>	2 V 50 Hz conforming to IEC 60255-5
<b>Resistance To Electrostatic Discharge</b>	6 kV in indirect mode 8 kV in air
<b>Resistance To Radiated Fields</b>	10 V/m level 3
<b>Resistance To Fast Transients</b>	2 kV
<b>Disturbance Radiated/Conducted</b>	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	5.0 cm
Package 1 Width	6.9 cm
Package 1 Length	7.6 cm
Package 1 Weight	181.0 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	4.799 kg

## Contractual warranty

Warranty	18 months
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# Sustainability

**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)

## Well-being performance

 Mercury Free	
 Rohs Exemption Information	<a href="#">Yes</a>
Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins