



Main

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| Range | TeSys |
| Product name | TeSys D |
| Device short name | LR97 |
| Product or component type | Electronic overcurrent relay |
| Relay application | Overload $I_{max} > I_{setting}$ Sensitivity to phase failure Locked rotor, mechanical jamming $I > 3 \times I_{setting}$ |
| Product compatibility | LC1D25...D38 |
| Network type | AC |
| [Us] rated supply voltage | 200...240 V AC |
| Thermal protection adjustment range | 20...38 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

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|---|---|
| Network frequency | 50...60 Hz |
| Mounting support | Direct on contactor Rail |
| Tripping threshold | 20...34 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 | < 3 s |
| Reset | Automatic reset 120 s fixed Electrical by interruption of power supply for minimum 0.1 s Manual reset |
| Time range | 0.2...10 s - O-time knob 0.3...10 s - O-time knob 0.5...30 s - D-time knob |
| Signalling function | 2 LEDs |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

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| Connections - terminals | Control circuit: cable 1 x 1...25 mm ² flexible with cable end Control circuit: cable 1 x 1...25 mm ² flexible without cable end Control circuit: cable 2 x 1...25 mm ² flexible without cable end Control circuit: lug-clamp 1 x 1...25 mm ² flexible with cable end Control circuit: lug-clamp 1 x 1...25 mm ² flexible without cable end Control circuit: lug-clamp 2 x 1...25 mm ² flexible with cable end Control circuit: lug-clamp 2 x 1...25 mm ² flexible without cable end Control circuit: cable 2 x 1...25 mm ² Power circuit: cable 1 x 1...6 mm ² flexible without cable end Power circuit: cable 1 x 2.5...10 mm ² flexible with cable end Power circuit: lug-clamp 1 x 1...6 mm ² flexible without cable end Power circuit: lug-clamp 1 x 2.5...10 mm ² flexible with cable end |
| Tightening torque | Control circuit: 0.6...1.2 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

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|---------------------------------------|---|
| 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 | -25...60 °C conforming to IEC 60947-4-1 |
| Ambient air temperature for storage | -30...80 °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 |

Offer Sustainability

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|----------------------------|---|
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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

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| Warranty | 18 months |
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