



Main

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|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Device short name | LR97 |
| Product or component type | Electronic overcurrent relay |
| Relay application | Locked rotor, mechanical jamming $I > 3 \times I_{\text{setting}}$ Overload $I_{\text{max}} > I_{\text{setting}}$ Sensitivity to phase failure |
| Product compatibility | LC1D09...D38 |
| Network type | AC |
| [Us] rated supply voltage | 200...240 V AC |
| Thermal protection adjustment range | 1.2...7 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 | 1.2...6 A |
| Surge withstand | 6 kV conforming to IEC 61000-4-5 |
| Contacts type and composition | 1 NO 1 NC |
| [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

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|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [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 | < 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 |
| Connections - terminals | Control circuit : cable 1 cable 1...25 mm ² - cable stiffness: flexible - with cable end Control circuit : cable 1 cable 1...25 mm ² - cable stiffness: flexible - without cable end Power circuit : cable 1 cable 1...4 mm ² - cable stiffness: flexible - with cable end Power circuit : cable 1 cable 1.5...10 mm ² - cable stiffness: flexible - without cable end Power circuit : lug-clamp 1 cable 1...4 mm ² - cable stiffness: flexible - with cable end Power circuit : lug-clamp 1 cable 1.5...10 mm ² - cable stiffness: flexible - without cable end Control circuit : cable 2 cable 1...25 mm ² - cable stiffness: flexible - with cable end Control circuit : cable 2 cable 1...25 mm ² - cable stiffness: flexible - without cable end Control circuit : lug-clamp 1 cable 1...25 mm ² - cable stiffness: flexible - with cable end Control circuit : lug-clamp 1 cable 1...25 mm ² - cable stiffness: flexible - without cable end Control circuit : lug-clamp 2 cable 1...25 mm ² - cable stiffness: flexible - with cable end Control circuit : lug-clamp 2 cable 1...25 mm ² - cable stiffness: flexible - without cable end |
| Tightening torque | Power circuit : 2 N.m - on cable Control circuit : 0.6...1.2 N.m - on lug-clamp |
| Height | 67.5 mm |
| Width | 45 mm |
| Depth | 67.5 mm |
| Product weight | 0.172 kg |

Environment

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|---------------------------------------|-------------------------------------------------------------------|
| Standards | IEC 60947 IEC 60255-6 |
| Product certifications | GOST CSA 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 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 |

Contractual warranty

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|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

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