Product datasheet

Specifications

Green Premium™

Thermal overload relay,Easy TeSys Protect,0.1...0.16A,class 10A

LRE01

Main

Range	Easy TeSys
Range Of Product	Easy TeSys Protect
Product Or Component Type	Differential thermal overload relay
Device Short Name	LRE
Relay Application	Motor protection
Phase Failure Sensitivity	Tripping current 130 % of Ir on two phase, the last one at 0 conforming to IEC 60947-4-1
Colour	Grey (RAL 7011)

Complementary

Product Compatibility	LC1E06...38
Network Type	AC
Network Frequency	50...60 Hz
Mounting Support	Under contactor Plate, with specific accessories Rail, with specific accessories
Thermal Overload Class	Class 10A conforming to IEC 60947-4-1
Signalling Function	Relay trip indicator
Thermal Protection Adjustment Range	0.1…0.16 A
Tripping Threshold	1.14 +/- 0.06 Ir conforming to IEC 60947-4-1
Mechanical Robustness	Shocks: 6 Gn for 11 ms conforming to IEC 60068-2-7 Vibrations: 3 GN conforming to IEC 60068-2-6
Auxiliary Contact Composition	1 NO + 1 NC
[Ith] Conventional Free Air Thermal Current	5 A for signalling circuit
[Ue] Rated Operational Voltage	<= 690 V AC
Associated Fuse Rating	2 A gG for power circuit 0.25 A aM for power circuit 5 A gG for signalling circuit
[Ui] Rated Insulation Voltage	690 V conforming to IEC 60947-4-1
[Uimp] Rated Impulse Withstand Voltage	6 kV
Local Signalling	Trip indicator
Control Type	Push-button red stop: Push-button green reset:
Temperature Compensation	-20…60 °C

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

Connections - Terminals	Power circuit: screw clamp terminals 1 1.5…6 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1…6 mm² - cable stiffness: solid without cable end Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible without cable end Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Signalling circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: solid without cable end
Recommended Tightening Torque	Power circuit: 1.7 N.m - on screw clamp terminals Signalling circuit: 1.7 N.m - on screw clamp terminals
Height	44.5 mm
Width	45 mm
Depth	70 mm
Net Weight	0.13 kg

Environment

Standards	IEC 60947-4-1 IEC 60947-5-1
Product Certifications	EAC
Protective Treatment	TH conforming to IEC 60068
Ip Degree Of Protection	IP20 conforming to IEC 60529
Ambient Air Temperature For Operation	-20…60 °C without derating conforming to IEC 60947-4-1 -20…70 °C with derating
Ambient Air Temperature For Storage	-60…80 °C
Fire Resistance	850 °C conforming to IEC 60068-2-1
Dielectric Strength	6 kV at 50 Hz conforming to IEC 60255-5
Electromagnetic Compatibility	Surge withstand: 6 kV conforming to IEC 60801-5

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.5 cm
Package 1 Width	8.0 cm
Package 1 Length	8.5 cm
Package 1 Weight	154.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	33
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.537 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	528
Package 3 Height	60.0 cm

Package 3 Width	80.0 cm
Package 3 Length	528.0 cm
Package 3 Weight	81.312 kg

Contractual warranty

Warranty	18 months

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_2 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 >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information