Product datasheet

Specifications

Green Premium™

Thermal overload relay,Easy TeSys Protect,174-279A,class 10A

LRE485

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

Complementary

Product Compatibility	LC1E200...630
Network Type	AC
Network Frequency	50...60 Hz
Mounting Support	Under contactor Plate
Thermal Overload Class	Class 10A conforming to IEC 60947-4-1
Signalling Function	Relay trip indicator
Thermal Protection Adjustment Range	174…279 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	315 A gG for power circuit 315 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
Connection Pitch	48 mm

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	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 Power circuit: lugs Power circuit: bars - busbar cross section: 4 x 25 mm
Recommended Tightening Torque	Power circuit: 35 N.m - on bars M10 Power circuit: 35 N.m - on lugs M10 Signalling circuit: 1.7 N.m - on screw clamp terminals
Height	134 mm
Width	180 mm
Depth	134 mm
Net Weight	2.2 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	IP00 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	16.5 cm
Package 1 Width	17.7 cm
Package 1 Length	27.0 cm
Package 1 Weight	2.673 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	2
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.756 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

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
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