Product datasheet

Specifications

Thermal overload relay,Easy TeSys Protect,5.5...8A,class 10A

LRE12

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	LC1E09...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	5.5…8 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	20 A gG for power circuit 12 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

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	IEC CCC 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	5.300 cm
Package 1 Width	8.000 cm
Package 1 Length	8.200 cm
Package 1 Weight	146.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	33
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.170 kg

Contractual warranty

Warranty	18 months

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	42
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration

Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

Offer Marketing Illustration

Product benefits / Features

Technical Illustration

Assembly's dimensions