

# Product data sheet

Specifications



## Thermal overload relay,Easy TeSys Protect,51-81A,class 10A

LRE480

### 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	LC1E120...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	58...81 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	125 A gG for power circuit 100 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	34.8 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

<b>Connections - Terminals</b>	Signalling circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Signalling circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Signalling circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: bars - busbar cross section: 3 x 18 mm Power circuit: lugs
<b>Recommended Tightening Torque</b>	Power circuit: 27.5 N.m - on bars M8 Power circuit: 27.5 N.m - on lugs M8 Signalling circuit: 1.7 N.m - on screw clamp terminals
<b>Height</b>	141 mm
<b>Width</b>	180 mm
<b>Depth</b>	134 mm
<b>Net Weight</b>	2.2 kg

## Environment

<b>Standards</b>	IEC 60947-5-1 IEC 60947-4-1
<b>Product Certifications</b>	EAC
<b>Protective Treatment</b>	TH conforming to IEC 60068
<b>Ip Degree Of Protection</b>	IP00 conforming to IEC 60529
<b>Ambient Air Temperature For Operation</b>	-20...60 °C without derating conforming to IEC 60947-4-1 -20...70 °C with derating
<b>Ambient Air Temperature For Storage</b>	-60...80 °C
<b>Fire Resistance</b>	850 °C conforming to IEC 60068-2-1
<b>Dielectric Strength</b>	6 kV at 50 Hz conforming to IEC 60255-5
<b>Electromagnetic Compatibility</b>	Surge withstand: 6 kV conforming to IEC 60801-5

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	16.4 cm
<b>Package 1 Width</b>	17.7 cm
<b>Package 1 Length</b>	29.0 cm
<b>Package 1 Weight</b>	1.876 kg
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	2
<b>Package 2 Height</b>	30.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	6.488 kg
<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	8
<b>Package 3 Height</b>	80.0 cm
<b>Package 3 Width</b>	80.0 cm

Package 3 Length	60.0 cm
Package 3 Weight	26.36 kg

## Contractual warranty

Warranty	18 months
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## 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<sub>2</sub> 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	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>