

# Product datasheet

Specifications



## Easy TeSys differential thermal overload relay 55...70 A - class 10A

LRE361

### 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 $I_r$ on two phase, the last one at 0 conforming to IEC 60947-4-1

### Complementary

Product compatibility	LC1E80...95
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	55...70 A
Tripping threshold	1.14 +/- 0.06 $I_r$ 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
[ $I_{th}$ ] conventional free air thermal current	5 A for signalling circuit
[ $U_e$ ] rated operational voltage	<= 690 V AC
Associated fuse rating	125 A gG for power circuit 80 A aM for power circuit 5 A gG for signalling circuit
[ $U_i$ ] rated insulation voltage	690 V conforming to IEC 60947-4-1
[ $U_{imp}$ ] 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

<b>Connections - terminals</b>	<p>Signalling circuit: screw clamp terminals 2 1...2.5 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Signalling circuit: screw clamp terminals 2 1...2.5 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Signalling circuit: screw clamp terminals 2 1...2.5 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 1 4...35 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 4...35 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 4...35 mm<sup>2</sup> - cable stiffness: solid without cable end</p>
<b>Recommended tightening torque</b>	<p>Power circuit: 9 N.m - on screw clamp terminals</p> <p>Signalling circuit: 1.7 N.m - on screw clamp terminals</p>
<b>Height</b>	54 mm
<b>width</b>	70 mm
<b>Depth</b>	113 mm
<b>Net weight</b>	0.48 kg

## Environment

<b>Standards</b>	<p>IEC 60947-5-1</p> <p>IEC 60947-4-1</p>
<b>Product certifications</b>	EAC
<b>Protective treatment</b>	TH conforming to IEC 60068
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Ambient air temperature for operation</b>	<p>-20...60 °C without derating conforming to IEC 60947-4-1</p> <p>-20...70 °C with derating</p>
<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>	7.500 cm
<b>Package 1 Width</b>	9.000 cm
<b>Package 1 Length</b>	12.500 cm
<b>Package 1 Weight</b>	490.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	9
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	4.796 kg

## Contractual warranty

<b>Warranty</b>	18 months
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# 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

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	4
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	No
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EU RoHS Directive	Compliant with Exemptions
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REACH Regulation	<a href="#">REACH Declaration</a>
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China RoHS Regulation	<a href="#">China RoHS declaration</a>
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## Use Again

### Repack and remanufacture

WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No

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Offer Marketing Illustration

Product benefits / Features

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Easy TeSys Thermal Overload Relays  
Range Accessories

Contact blocks

Auxiliary contact

Mounting accessories

Manual starter enclosure

Manual starter padlocking

The image displays a collection of accessories for Easy TeSys Thermal Overload Relays. At the top left is a large black relay unit with three red terminals. Below it, the text 'Easy TeSys Thermal Overload Relays Range Accessories' is shown. The accessories are arranged in two rows. The first row includes 'Contact blocks' (a white rectangular component) and an 'Auxiliary contact' (a vertical white component). The second row includes 'Mounting accessories' (a white metal bracket), 'Manual starter enclosure' (two white rectangular enclosures), and 'Manual starter padlocking' (a yellow padlock).

Offer Marketing Illustration

Product benefits / Features

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## Easy TeSys Thermal Overload Relays



### Designed for the essential

Delivers the best balance between performance and budget without any compromise on quality



### Easy choice and application

Easier to install, order and understand, and operate with multi-standard screws



### Extended flexibility

Larger number of solutions covered with an extended product range



Offer Marketing Illustration

Product benefits / Features

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The image shows a Schneider Easy TeSys Thermal Overload Relay (LRE361). It is a dark grey, rectangular device with three orange terminal screws on top. The front panel features a 'STOP' button, a 'RESET' button, and a 'TRIP' indicator. The text 'Easy TeSys Schneider Protect' and 'LRE 10' is visible on the front. The device is set against a green circular background.

## Easy TeSys Thermal Overload Relays

### Technical Benefits

- Protecting A.C. circuits and motors from overloads, phase failure, long starting times, and prolonged stalled rotor conditions.
- Include automatic compensation for ambient temperature variations.
- 4 width sizes available to cover all ratings; from 45 mm (up to 38 A) to 242 mm (up to 630 A)
- Compensated relays with manual or automatic reset and relay trip indicator
- Terminal block for separate mounting

Technical Illustration

Assembly's dimensions

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