



# 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	Grev (RAL 7011)	

### Complementary

Product compatibility	LC1E0938
Network type	AC
Network frequency	5060 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	5.58 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	-2060 °C

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Connections - terminals	Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: solid without cable end	
	Signalling circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible without cable end	
	Signalling circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end	
	Signalling circuit: screw clamp terminals 2 12.5 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	-2060 °C without derating conforming to IEC 60947-4-1 -2070 °C with derating	
Ambient air temperature for storage	-6080 °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**

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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



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Transparency RoHS/REACh

#### Well-being performance

<b>②</b>	Reach Free Of Svhc	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	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

#### Offer Marketing Illustration

#### **Product benefits / Features**



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**Technical Illustration** 

#### Assembly's dimensions



