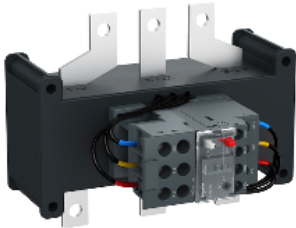


# Product datasheet

Specifications



## EasyPact TVS differential thermal overload relay 58...81 A - 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
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: bars - busbar cross section: 3 x 18 mm Power circuit: lugs
Recommended tightening torque	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
Height	141 mm
Width	180 mm
Depth	134 mm
Net weight	2.2 kg

## Environment

Standards	IEC 60947-5-1 IEC 60947-4-1
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	16.4 cm
Package 1 Width	17.7 cm
Package 1 Length	29.0 cm
Package 1 Weight	1.876 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	6.488 kg
Unit Type of Package 3	P06
Number of Units in Package 3	8
Package 3 Height	80.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	26.36 kg

Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	<a href="#">China RoHS declaration</a>
RoHS exemption information	<a href="#">Yes</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Circularity Profile	<a href="#">End of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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Recommended replacement(s)