

# LRE480

## EasyPact TVS differential thermal overload relay 58...81 A - class 10A

### Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Differential thermal overload relay
Device short name	LRE
Relay application	Motor protection
Phase failure sensitivity	Tripping current 130 % of I <sub>r</sub> 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	Plate (with specific accessories) Under contactor
Overload tripping 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 I <sub>r</sub> conforming to IEC 60947-4-1
Mechanical robustness	Vibrations: 3 Gn conforming to IEC 60068-2-6 Shocks: 6 Gn for 11 ms conforming to IEC 60068-2-7
Auxiliary contact composition	1 NO + 1 NC
[I <sub>th</sub> ] conventional free air thermal current	Control circuit : 5 A
[U <sub>e</sub> ] rated operational voltage	<= 690 V AC
Associated fuse rating	Power circuit : 100 A (aM) Power circuit : 125 A (gG) Control circuit : 5 A (gG)
[U <sub>i</sub> ] rated insulation voltage	690 V conforming to IEC 60947-4-1
[U <sub>imp</sub> ] rated impulse withstand voltage	6 kV
Control type	Reset: green push-button Stop: red push-button
Temperature compensation	-20...60 °C
Connection pitch	34.8 mm
Connections - terminals	Lugs (power circuit): Bars (power circuit): 3 x 18 mm Screw clamp terminals (control circuit): 2 solid cable(s) without cable end of 1...2.5 mm <sup>2</sup> Screw clamp terminals (control circuit): 2 flexible cable(s) with cable end of 1...2.5 mm <sup>2</sup> Screw clamp terminals (control circuit): 2 flexible cable(s) without cable end of 1...2.5 mm <sup>2</sup>
Tightening torque	Power circuit (lugs): 27.5 N.m for M8 screw(s) Power circuit (bars): 27.5 N.m for M8 screw(s) Control circuit (screw clamp terminals): 1.7 N.m
Height	141 mm
Width	180 mm
Depth	134 mm
Product weight	2.2 kg

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## Environment

Standards	IEC 60947-4-1 IEC 60947-5-1
Product certifications	GOST
Protective treatment	TH conforming to IEC 60068
IP degree of protection	IP00 conforming to IEC 60529
Ambient air temperature for operation	-20...70 °C with derating -20...60 °C without derating conforming to IEC 60947-4-1
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

## Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS (date code: YYWW)	Compliant - since 1301 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold