

### Main

Range of product	TeSys E
Product or component type	Thermal overload relay
Device short name	LRE
Relay application	Overload protection
Product compatibility	LC1E80...95
Network type	AC

### Complementary

Network frequency	50...60 Hz
[Ue] rated operational voltage	<= 690 V AC
[Ui] rated insulation voltage	690 V AC power circuit IEC 60947-4-1
[Uimp] rated impulse withstand voltage	6 kV
Mounting support	50 mm centre independent mounting Rail
Overload tripping class	Class 10A IEC 60947-4-1
Signalling function	Relay trip indicator
Thermal protection adjustment range	55...70 A
Tripping threshold	1.14 +/- 0.06 I <sub>r</sub> IEC 60947-4-1
Connections - terminals	Screw clamp terminal power circuit 1 4...35 mm <sup>2</sup> solid without Screw clamp terminal power circuit 1 4...35 mm <sup>2</sup> flexible with Screw clamp terminal power circuit 1 4...35 mm <sup>2</sup> flexible without Screw clamp terminal control circuit 1 2...5 mm <sup>2</sup> solid without Screw clamp terminal control circuit 1 2...5 mm <sup>2</sup> flexible with Screw clamp terminal control circuit 1 2...5 mm <sup>2</sup> flexible without
Tightening torque	9 N.m power circuit screw clamp terminal 4...35 mm <sup>2</sup> 1.7 N.m control circuit screw clamp terminal 2...5 mm <sup>2</sup>
[I <sub>th</sub> ] conventional free air thermal current	5 A control circuit
Surge withstand	6 kV IEC 60801-5
Permissible current	55...70 A power circuit
Protection type	AM fuse 80 A power circuit GG fuse 125 A power circuit
Phase failure sensitivity	Tripping current 130 % of I <sub>r</sub> on two phase, the last one at 0 IEC 60947-4-1
Reset	Manual or automatic reset compensated relay
Temperature compensation	-20...60 °C
Height	54 mm
Width	70 mm
Depth	113 mm
Product weight	0.48 kg

## Environment

Standards	IEC 60947-4-1 IEC 60947-5-1
Product certifications	GOST
IP degree of protection	IP20 IEC 60529
Protective treatment	TH IEC 60068
Ambient air temperature for operation	-20...70 °C with derating -20...60 °C without derating IEC 60947-4-1
Ambient air temperature for storage	-60...80 °C
Operating position	Any position without in relation to normal vertical mounting plane
Fire resistance	850 °C IEC 60068-2-1
Shock resistance	6 gn 11 ms IEC 60068-2-7
Vibration resistance	3 gn IEC 60068-2-6
Dielectric strength	6000 V 50 Hz IEC 60255-5

## Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 1110 - <a href="#">Schneider Electric declaration of conformity</a>

## Contractual warranty

Period	18 months
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