



## Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Contactor
Device short name	LC1E
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit: ≤ 690 V AC 50/60 Hz
[Ie] rated operational current	100 A (at ≤60 °C) at ≤ 415 V AC AC-1 for power circuit
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	230 V AC 50/60 Hz
Height	127 mm
Width	95 mm
Depth	120 mm
Net weight	1.6 kg
Colour	Grey (RAL 7011)

## Complementary

[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
[Ith] conventional free air thermal current	100 A (at 60 °C) for power circuit
Irms rated making capacity	800 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	640 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 40 °C - 10 s for power circuit

	320 A 40 °C - 60 s for power circuit 135 A 40 °C - 600 s for power circuit
Associated fuse rating	160 A gG at ≤ 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1
Average impedance	0.8 mΩ - 100 A 50 Hz for power circuit
Power dissipation per pole	5.1 W AC-3 9.7 W AC-1
Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> at 50/60 Hz (at <55 °C) Drop-out: 0.3...0.6 U <sub>c</sub> at 50/60 Hz (at <55 °C)
Operating time	20...35 ms on closing 6...30 ms on opening
Mechanical durability	300000 cycles
Maximum operating rate	1200 cyc/h 60 °C
Inrush power in VA	200 VA 50 Hz cos phi 0.75 (at 20 °C) 220 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	22 VA 60 Hz cos phi 0.3 (at 20 °C) 20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	6...10 W for control circuit
Insulation resistance	> 10 MΩ for control circuit
Electrical durability	350000 cycles AC-1 900000 cycles AC-3
Mounting support	Plate DIN rail
Connections - terminals	Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 4...50 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...16 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 4...50 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 4...50 mm <sup>2</sup> - cable stiffness: solid without cable end
Recommended tightening torque	Control circuit: 1.2 N.m Power circuit: 12 N.m
Max tightening torque	Control circuit: 1.4 N.m Power circuit: 13.5 N.m

## Environment

Standards	IEC 60947-4-1 IEC 60947-5-1
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Pollution degree	3
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-20...70 °C at U <sub>c</sub>
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 1.5 Gn, 5...300 Hz Vibrations contactor closed: 3 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 11 ms Shocks contactor closed: 7 Gn for 11 ms

## Packing Units

Package 1 Weight	1.650 kg
Package 1 Height	125.000 mm
Package 1 width	85.000 mm
Package 1 Length	125.000 mm

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins