



### Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Contacteur
Device short name	LC1E
Contacteur application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] rated operational current	120 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3 for power circuit 150 A (at $\leq 40$ °C) at $\leq 440$ V AC AC-1 for power circuit
Motor power kW	37 KW at 220...230 V AC 50/60 Hz (AC-3) 55 KW at 380...400 V AC 50/60 Hz (AC-3) 59 KW at 415 V AC 50/60 Hz (AC-3) 59 KW at 440 V AC 50/60 Hz (AC-3) 75 KW at 500 V AC 50/60 Hz (AC-3) 80 KW at 660...690 V AC 50/60 Hz (AC-3)
Control circuit type	AC at 50 Hz
[Uc] control circuit voltage	24 V AC 50 Hz
Height	158 Mm
Width	120 Mm
Depth	132 Mm
Net weight	2.3 Kg

### Complementary

Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 KV coil not connected to the power circuit conforming to IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Irms rated making capacity	1200 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	960 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	1100 A 40 °C - 10 s for power circuit
Associated fuse rating	250 A gG at $\leq 690$ V coordination type 1 for control circuit conforming- to IEC 60947-5-1 10 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	0.6 MOhm - Ith 150 A 50 Hz for power circuit
Power dissipation per pole	8.6 W AC-3 14 W AC-1

Control circuit voltage limits	Operational: 0.85...1.1 Uc at 50 Hz (at <55 °C) Drop-out: 0.35...0.55 Uc at 50 Hz (at <55 °C)
Operating time	20...50 ms on closing 6...20 ms on opening
Mechanical durability	400000 Cycles
Maximum operating rate	1200 Cyc/H 55 °C
Inrush power in VA	300 VA 50 Hz cos phi 0.8 (at 20 °C) 300 VA 60 Hz cos phi 0.8 (at 20 °C)
Hold-in power consumption in VA	22 VA 50 Hz cos phi 0.3 (at 20 °C) 22 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	3...8 W for control circuit
Minimum switching current	5 MA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	1.5 Ms on energisation guaranteed between NC and NO contact 1.5 Ms on de-energisation guaranteed between NC and NO contact
Insulation resistance	> 10 MOhm for control circuit
Electrical durability	800000 Cycles AC-3 250000 Cycles AC-1
Mounting support	Plate DIN rail
Connections - terminals	Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with-cable end Power circuit: screw clamp terminals 1 10...120 mm <sup>2</sup> - cable stiffness: flexible-with cable end Power circuit: screw clamp terminals 2 20...170 mm <sup>2</sup> - cable stiffness: flexible-with cable end Power circuit: screw clamp terminals 1 10...120 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 20...170 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible-without cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible-without cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible-with cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end
Tightening torque	Power circuit: 12 N.m Control circuit: 1.2 N.m

## Environment

Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	EAC
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 Uc
Operating altitude	3000 m without
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: 7 Gn for 11 ms Shocks contactor closed: 10 Gn for 11 ms

## 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>
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS Declaration</a>
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

## Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**