



### Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Contactor
Device short name	LC1E
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	50 A (<= 60 °C) AC AC-1 for power circuit <= 440 V 38 A (<= 60 °C) AC AC-3 for power circuit <= 440 V
Motor power kW	18.5 kW at 660...690 V 18.5 kW at 415 V 18.5 kW at 380...400 V 18.5 kW at 500 V 9 kW at 220...230 V AC 50/60 Hz 18.5 kW at 440 V
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	220 V AC 50 Hz
Height	84 mm
Width	56 mm
Depth	86 mm
Product weight	0.45 kg
Colour	Grey RAL 7011

### Complementary

Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	6 kV (coil not connected to the power circuit) IEC 60947

[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overtoltage category	III
Irms rated making capacity	380 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	304 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	60 A at <= 40 °C - 600 s for power circuit 310 A at <= 40 °C - 10 s for power circuit 150 A at <= 40 °C - 60 s for power circuit
Associated fuse rating	10 A gG <= 690 V type 1 control circuit IEC 60947-5-1 63 A gG <= 690 V type 1 power circuit
Average impedance	2.5 mOhm at 50 Hz Ith 50 A for power circuit
Power dissipation per pole	5 W AC-1 2.9 W AC-3
Control circuit voltage limits	0.3...0.6 Uc at <= 55 °C drop-out 50 Hz 0.85...1.1 Uc at <= 55 °C operational 50 Hz
Operating time	12...22 ms on closing 4...19 ms on opening
Mechanical durability	8000000 cycles
Operating rate	1800 cyc/h at <= 60 °C
Inrush power in VA	95 VA at 20 °C (0.75) 60 Hz 95 VA at 20 °C (0.75) 50 Hz
Hold-in power consumption in VA	8.5 VA at 20 °C (0.3) 50 Hz 8.5 VA at 20 °C (0.3) 60 Hz
Heat dissipation	2...3 W for control circuit
Minimum switching current	5 mA control circuit
Minimum switching voltage	17 V 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 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 flexible cable(s) 1...4 mm <sup>2</sup> without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm <sup>2</sup> without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm <sup>2</sup> with cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm <sup>2</sup> with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm <sup>2</sup> without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm <sup>2</sup> without cable end Power circuit : screw clamp terminals - 1 solid cable(s) 1.5...6 mm <sup>2</sup> without cable end Power circuit : screw clamp terminals - 2 solid cable(s) 1.5...6 mm <sup>2</sup> without cable end Power circuit : screw clamp terminals - 1 flexible cable(s) 1...6 mm <sup>2</sup> with cable end Power circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm <sup>2</sup> with cable end
Tightening torque	1.5 N.m for control circuit 2.1 N.m for power circuit

## Environment

Standards	IEC 60947-4-1 IEC 60947-1 IEC 60947-5-1
Product certifications	EAC
IP degree of protection	IP2x conforming to IEC 60529
Protective treatment	TH IEC 60068 3
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 derating
Fire resistance	850 °C 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 closed 10 Gn for 11 ms  
Shocks contactor open 6 Gn for 11 ms

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### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1110 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

### Contractual warranty

Warranty period	18 months
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