



## 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-1 AC-3
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	300 A (≤ 55 °C) AC AC-3 for power circuit ≤ 440 V 320 A (≤ 40 °C) AC AC-1 for power circuit ≤ 440 V
Motor power kW	90 kW at 220...230 V AC 50/60 Hz AC-3 160 kW at 380...400 V AC 50/60 Hz AC-3 160 kW at 415 V AC 50/60 Hz AC-3 185 kW at 440 V AC 50/60 Hz AC-3 200 kW at 500 V AC 50/60 Hz AC-3 250 kW at 660...690 V AC 50/60 Hz AC-3
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	220 V AC 50 Hz
Height	206 mm
Width	213 mm
Depth	219 mm
Product weight	8.5 kg

## Complementary

[Uimp] rated impulse withstand voltage	8 kV (coil not connected to the power circuit) IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III



Irms rated making capacity	3000 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	2400 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	2200 A at $\leq 40$ °C - 10 s for power circuit
Associated fuse rating	10 A gG $\leq 690$ V type 1 control circuit IEC 60947-5-1 500 A gG $\leq 690$ V type 1 power circuit
Average impedance	0.3 mOhm at 50 Hz Ith 320 A for power circuit
Power dissipation per pole	31 W AC-1 27 W AC-3
Control circuit voltage limits	0.35...0.55 $U_c$ at $\leq 55$ °C drop-out 50 Hz 0.85...1.1 $U_c$ at $\leq 55$ °C operational 50 Hz
Operating time	40...65 ms on closing 100...170 ms on opening
Mechanical durability	5000000 cycles
Operating rate	1200 cyc/h at $\leq 55$ °C
Inrush power in VA	650 VA at 20 °C (0.9) 60 Hz 650 VA at 20 °C (0.9) 50 Hz
Hold-in power consumption in VA	10 VA at 20 °C (0.9) 60 Hz 10 VA at 20 °C (0.9) 50 Hz
Heat dissipation	8 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	500000 cycles AC-3 400000 cycles AC-1
Mounting support	Plate
Connections - terminals	Power circuit : cable with lug $\varnothing 240$ mm Power circuit : bars - 2.5 x 30 mm 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 - 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 Control circuit : screw clamp terminals - 1 flexible cable(s) 1...2.5 mm <sup>2</sup> with cable end
Tightening torque	1.2 N.m for control circuit 35 N.m for power circuit

## 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 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 $U_c$
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 Shocks contactor closed 7 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor open 6 Gn for 11 ms

## Offer Sustainability

Sustainable offer status	Green Premium product
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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  <a href="#">Product environmental</a>
Product end of life instructions	Need no specific recycling operations
<b>Contractual warranty</b>	
Warranty period	18 months