



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	160 A (<= 55 °C) AC AC-3 for power circuit <= 440 V 200 A (<= 55 °C) AC AC-1 for power circuit <= 440 V
Motor power kW	45 kW at 220...230 V AC 50/60 Hz 75 kW at 380...400 V 80 kW at 415 V 80 kW at 440 V 100 kW at 660...690 V 90 kW at 500 V
Control circuit type	AC 50 Hz
[Uc] control circuit voltage	220 V AC 50 Hz
Height	158 mm
Width	120 mm
Depth	132 mm
Product 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) IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1

Overvoltage category	III
Irms rated making capacity	1600 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	1280 A at 440 V for power circuit conforming to IEC 60947
[I _{cw}] rated short-time withstand current	1400 A at ≤ 40 °C - 10 s for power circuit
Associated fuse rating	10 A gG ≤ 690 V type 1 control circuit IEC 60947-5-1 315 A gG ≤ 690 V type 1 power circuit
Average impedance	0.6 mOhm at 50 Hz I _{th} 200 A for power circuit
Power dissipation per pole	24 W AC-1 15 W AC-3
Control circuit voltage limits	0.35...0.55 U _c at ≤ 55 °C drop-out 50 Hz 0.85...1.1 U _c at ≤ 55 °C operational 50 Hz
Operating time	20...50 ms on closing 6...20 ms on opening
Mechanical durability	400000 cycles
Operating rate	1200 cyc/h at ≤ 55 °C
Inrush power in VA	300 VA at 20 °C (0.9) 60 Hz 300 VA at 20 °C (0.9) 50 Hz
Hold-in power consumption in VA	22 VA at 20 °C (0.9) 50 Hz 22 VA at 20 °C (0.9) 60 Hz
Heat dissipation	3...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	800000 cycles AC-3 250000 cycles AC-1
Mounting support	DIN rail Plate
Connections - terminals	Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm ² with cable end Power circuit : screw clamp terminals - 1 flexible cable(s) 10...120 mm ² with cable end Power circuit : screw clamp terminals - 1 solid cable(s) 10...120 mm ² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...2.5 mm ² without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm ² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...2.5 mm ² with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...2.5 mm ² without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...2.5 mm ² without cable end Power circuit : screw clamp terminals - 2 flexible cable(s) 10...120 mm ² with cable end Power circuit : screw clamp terminals - 2 solid cable(s) 10...120 mm ² without cable end
Tightening torque	12 N.m for power circuit 1.2 N.m for control 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
RoHS (date code: YYWW)	Compliant - since 1110 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

Contractual warranty

Warranty period	18 months
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