

LC1E400M7

EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 400A - 220 V AC coil



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	400 A (<= 55 °C) AC AC-3 for power circuit <= 440 V 500 A (<= 40 °C) AC AC-1 for power circuit <= 440 V
Motor power kW	200 kW at 380...400 V 220 kW at 415 V 257 kW at 500 V 280 kW at 660...690 V 110 kW at 220...230 V AC 50/60 Hz 250 kW at 440 V
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Height	375 mm
Width	213 mm
Depth	219 mm
Product weight	9.1 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

[I _{th}] conventional free air thermal current	500 A ≤ 40 °C power circuit
I _{rms} rated making capacity	4000 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	3200 A at 440 V for power circuit conforming to IEC 60947
[I _{cw}] rated short-time withstand current	3600 A at ≤ 40 °C - 10 s for power circuit
Associated fuse rating	10 A gG ≤ 690 V type 1 control circuit IEC 60947-5-1 630 A gG ≤ 690 V type 1 power circuit
Average impedance	0.26 mΩ at 50 Hz I _{th} 500 A for power circuit
Power dissipation per pole	42 W AC-3 65 W AC-1
Control circuit voltage limits	0.35...0.5 U _c at ≤ 55 °C drop-out 50/60 Hz 0.85...1.1 U _c at ≤ 55 °C operational 50/60 Hz
Operating time	100...170 ms on opening 40...75 ms on closing
Mechanical durability	4000000 cycles
Operating rate	2400 cyc/h at ≤ 55 °C
Inrush power in VA	1075 VA at 20 °C (0.9) 50 Hz 1075 VA at 20 °C (0.9) 60 Hz
Hold-in power consumption in VA	15 VA at 20 °C (0.9) 50 Hz 15 VA at 20 °C (0.9) 60 Hz
Heat dissipation	14 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 MΩ control circuit
Electrical durability	600000 cycles AC-3 250000 cycles AC-1
Mounting support	Plate
Connections - terminals	Power circuit : cable with lug - 2Ø150 mm Power circuit : bars - 2 30 x 5 mm Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm ² with cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm ² with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm ² without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm ² without 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 closed 5 Gn, 5...300 Hz Vibrations contactor open 1.5 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1332 - 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 environmental
Product end of life instructions	Need no specific recycling operations