

# LC1E500M7

EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 500A - 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	500 A (<= 55 °C) AC AC-3 for power circuit <= 440 V 700 A (<= 55 °C) AC AC-1 for power circuit <= 440 V
Motor power kW	250 kW at 380...400 V 280 kW at 415 V 295 kW at 440 V 335 kW at 500 V 355 kW at 660...690 V 147 kW at 220...230 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Height	400 mm
Width	233 mm
Depth	232 mm
Product weight	11.35 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

[Ith] conventional free air thermal current	700 A ≤ 40 °C power circuit
Irms rated making capacity	5000 A - 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	4000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	4200 A at ≤ 40 °C - 10 s for power circuit
Associated fuse rating	10 A gG ≤ 690 V type 1 control circuit IEC 60947-5-1 800 A gG ≤ 690 V type 1 power circuit
Average impedance	0.18 mOhm at 50 Hz Ith 700 A for power circuit
Power dissipation per pole	45 W AC-3 88 W AC-1
Control circuit voltage limits	0.35...0.5 Uc at ≤ 55 °C drop-out 50/60 Hz 0.85...1.1 Uc 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	1100 VA at 20 °C (0.9) 50 Hz 1100 VA at 20 °C (0.9) 60 Hz
Hold-in power consumption in VA	18 VA at 20 °C (0.9) 50 Hz 18 VA at 20 °C (0.9) 60 Hz
Heat dissipation	18 W for control circuit 18 W
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	600000 cycles AC-3 250000 cycles AC-1
Mounting support	Plate
Connections - terminals	Power circuit : cable with lug - 2Ø240 mm Power circuit : bars - 2 40 x 5 mm Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 1 flexible cable(s) 1...4 mm² with cable end Control circuit : screw clamp terminals - 2 flexible cable(s) 1...2.5 mm² with cable end Control circuit : screw clamp terminals - 1 solid cable(s) 1...4 mm² without cable end Control circuit : screw clamp terminals - 2 solid cable(s) 1...4 mm² 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 Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C IEC 60695-2-1
Mechanical robustness	Shocks contactor open 9 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1332 - 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