



## Contactor, EasyPact TVS, 3P(3NO), AC-3, <=440V, 50A, 380V AC coil, 50/60Hz

LC1E50Q7

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Range	EasyPact
Product or component type	Contactor
Device short name	LC1E
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[le] rated operational current	50 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 70 A (at <55 °C) at <= 440 V AC AC-1 for power circuit

Complementary		
Motor power kW	15 kW at 220230 V AC 50/60 Hz 22 kW at 380400 V 25 kW at 415 V 30 kW at 440 V 30 kW at 500 V 33 kW at 660690 V	
Pole contact composition	3 NO	
Auxiliary contact composition	1 NO + 1 NC	
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1	
[Uimp] rated impulse withstand voltage	6 kV coil not connected to the power circuit conforming to IEC 60947	
Overvoltage category	III	
[Ith] conventional free air thermal current	70 A (at 55 °C)	
Irms rated making capacity	500 A at 440 V AC for power circuit conforming to IEC 60947-4-1	
Rated breaking capacity	400 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit	
Control circuit type	AC at 50/60 Hz	
Average impedance	1.5 mOhm - Ith 70 A 50 Hz for power circuit	
Power dissipation per pole	3.8 W AC-3 7.4 W AC-1	
Minimum switching current	5 mA for control circuit	

Minimum switching voltage	17 V for 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	
Maximum operating rate	1200 cyc/h 60 °C	
Inrush power in VA	160 VA 50 Hz cos phi 0.75 (at 20 °C) 140 VA 60 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	15 VA 50 Hz cos phi 0.3 (at 20 °C) 13 VA 60 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	610 W for control circuit	
Insulation resistance	> 10 MOhm for control circuit	
Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm² - cable stiffness: solid without cable end	
Tightening torque	Control circuit: 1.2 N.m Power circuit: 5 N.m	
Mounting support	DIN rail Plate	
Mechanical durability	5000000 cycles	
Operating altitude	3000 m without derating	
Standards	IEC 60947-1 IEC 60947-5-1 IEC 60947-4-1	
Product certifications	EAC CE	
Environment		
IP degree of protection	IP2x conforming to IEC 60529	
Protective treatment	TH (pollution degree 3) conforming to IEC 60068-2-30 test Db	
Permissible ambient air temperature around the device	-2070 °C at Uc	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Mechanical robustness	Vibrations contactor open: 1.5 Gn, 5300 Hz Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor open: 6 Gn for 11 ms Shocks contactor closed: 7 Gn for 11 ms	
Height	127 mm	
Width	75 mm	
Depth	114 mm	
Net weight	0.98 kg	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	090 0 a	



Package 1 Weight

Package 1 Height

Package 1 Width

980.0 g

11.4 cm

7.5 cm

Package 1 Length	12.7 cm
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## Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	