



## EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 40A - 220 V AC coil

LC1E40M7

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Range	EasyPact
Product or component type	Contactor
Device short name	LC1E
Contactor application	Resistive load Motor control
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	40 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary	
Motor power kW	18.5 kW at 380400 V 11 kW at 220230 V AC 50/60 Hz 22 kW at 415 V 22 kW at 440 V 22 kW at 500 V 30 kW at 660690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	60 A (at 55 °C)
Irms rated making capacity	400 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	320 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	320 A 40 °C - 10 s for power circuit 165 A 40 °C - 60 s for power circuit 72 A 40 °C - 600 s for power circuit
Associated fuse rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3

[Uimp] rated impulse withstand voltage	6 kV coil not connected to the power circuit conforming to IEC 60947
Mechanical durability	5000000 cycles
Electrical durability	350000 cycles AC-1 900000 cycles AC-3
Control circuit type	AC at 50/60 Hz
Control circuit voltage limits	0.851.1 Uc (55 °C):operational 50/60 Hz 0.30.6 Uc (55 °C):drop-out 50/60 Hz
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
Operating time	2026 ms on closing 812 ms on opening
Maximum operating rate	1200 cyc/h 55 °C
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
Auxiliary contact composition	1 NO + 1 NC
Minimum switching voltage	17 V for control circuit
Minimum switching current	5 mA for control circuit
Insulation resistance	> 10 MOhm 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
Mounting support	Plate DIN rail
Environment	
Standards	IEC 60947-4-1 IEC 60947-1 IEC 60947-5-1
Product certifications	EAC CE
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 -6080 °C storage -555 °C operation
Operating altitude	3000 m without derating
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

Product weight	0.98 kg
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	8 cm
Package 1 Width	12.5 cm
Package 1 Length	13 cm
Package 1 Weight	968 g
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.085 kg
Package 3 Height	15.0 cm
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
Circularity Profile	End of Life Information

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Recommended replacement(s)

WEEE