

# Product datasheet

Specifications



## Contactor, EasyPact TVS, 4P(4NO), AC-1, <=415V, 60A, 220V

LC1E38004M7

### Main

Range	EasyPact
Product name	EasyPact TVS
Product or component type	Contactor
Device short name	LC1E
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
Power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	60 A (at <60 °C) at <= 415 V AC AC-1 for power circuit
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	220 V AC 50/60 Hz
Height	64 mm
Width	56 mm
Depth	93 mm
Net weight	0.52 kg
Colour	Grey (RAL 7011)

### Complementary

[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
[Ith] conventional free air thermal current	60 A (at 60 °C)
Irms rated making capacity	380 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	304 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	60 A 40 °C - 600 s for power circuit 310 A 40 °C - 10 s for power circuit 150 A 40 °C - 60 s for power circuit
Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1

<b>Average impedance</b>	2.5 mOhm - lth 50 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	2.9 W AC-3 5 W AC-1
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 Uc at 50/60 Hz (at <55 °C) Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <55 °C)
<b>Operating time</b>	12...22 ms on closing 4...19 ms on opening
<b>Mechanical durability</b>	8000000 cycles
<b>Maximum operating rate</b>	1800 cyc/h 60 °C
<b>Inrush power in VA</b>	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
<b>Hold-in power consumption in VA</b>	8.3 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	2...3 W for control circuit
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Electrical durability</b>	350000 cycles AC-1 900000 cycles AC-3
<b>Mounting support</b>	Plate DIN rail
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1.5...6 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5...6 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1...6 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end
<b>Recommended tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 2.1 N.m
<b>Max tightening torque</b>	Control circuit: 1.4 N.m Power circuit: 2.3 N.m
<b>Environment</b>	
<b>Product certifications</b>	EAC CE
<b>IP degree of protection</b>	IP2x conforming to IEC 60529
<b>Protective treatment</b>	TH (pollution degree 3) conforming to IEC 60068-2-30 test Db
<b>Pollution degree</b>	3
<b>Ambient air temperature for operation</b>	-5...55 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Permissible ambient air temperature around the device</b>	-20...70 °C at Uc
<b>Operating altitude</b>	3000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Mechanical robustness</b>	Vibrations contactor open: 1.5 Gn, 5...300 Hz Vibrations contactor closed: 3 Gn, 5...300 Hz Shocks contactor closed: 10 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms
<b>Packing Units</b>	
<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	540.0 g

Package 1 Height	10.0 cm
Package 1 Width	5.8 cm
Package 1 Length	8.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	22
Package 2 Weight	11.88 kg
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm

## Offer Sustainability

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