

# Product data sheet

Specifications



## Contactor, EasyPact TVS, 3P(3NO), AC-3, <=440V, 200A, 240V AC coil, 50Hz

LC1E200U5

### Main

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
[Ie] rated operational current	200 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 250 A (at <40 °C) at <= 440 V AC AC-1 for power circuit

### Complementary

Motor power kW	55 kW at 220...230 V AC 50/60 Hz 90 kW at 380...400 V 100 kW at 415 V 100 kW at 440 V 110 kW at 500 V 110 kW at 660...690 V
Pole contact composition	3 NO
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
[Uimp] rated impulse withstand voltage	8 kV coil not connected to the power circuit conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	250 A (at 55 °C)
Irms rated making capacity	2000 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	1600 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 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit
Control circuit type	AC at 50 Hz
Average impedance	0.33 mOhm - Ith 250 A 50 Hz for power circuit
Power dissipation per pole	13 W AC-3 21 W AC-1
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 55 °C
Inrush power in VA	805 VA 50 Hz cos phi 0.3 (at 20 °C) 970 VA 60 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in VA	55 VA 50 Hz cos phi 0.3 (at 20 °C) 66 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	18...24 W for control circuit
Insulation resistance	> 10 MOhm for control circuit
Connections - terminals	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 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 Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: cable with lug - external diameter: 150 mm Power circuit: bars 2 - busbar cross section: 3 x 25 mm
Tightening torque	Control circuit: 1.2 N.m Power circuit: 18 N.m
Mounting support	Plate
Mechanical durability	500000 cycles
Operating altitude	3000 m without derating
Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
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	-20...70 °C at Uc
Ambient air temperature for storage	-60...80 °C
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Vibrations contactor open: 1.5 Gn, 5...300 Hz Vibrations contactor closed: 3 Gn, 5...300 Hz Shocks contactor open: 6 Gn for 11 ms Shocks contactor closed: 7 Gn for 11 ms
Height	174 mm
Width	168.5 mm
Depth	181 mm
Net weight	4.6 kg

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	4.988 kg
Package 1 Height	22.5 cm
Package 1 width	20.5 cm
Package 1 Length	25.0 cm
Unit Type of Package 2	S03
Number of Units in Package 2	1

Package 2 Weight	5.701 kg
Package 2 Height	30.0 cm
Package 2 width	30.0 cm
Package 2 Length	40.0 cm
Unit Type of Package 3	S06
Number of Units in Package 3	12
Package 3 Weight	74.788 kg
Package 3 Height	73.5 cm
Package 3 width	60.0 cm
Package 3 Length	80.0 cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	<a href="#">REACH Declaration</a>
EU RoHS Directive	Compliant <a href="#">EU RoHS Declaration</a>
Mercury free	Yes
RoHS exemption information	<a href="#">Yes</a>
China RoHS Regulation	<a href="#">China RoHS declaration</a> Product out of China RoHS scope. Substance declaration for your information
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

### Contractual warranty

Warranty	18 months
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