

# Product datasheet

Specifications



## EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 250A - 220 V AC coil

LC1E250M5

### Main

Range	Easy TeSys
Range Of Product	Easy TeSys Control
Product Or Component Type	Contactors
Device Short Name	LC1E
Contactors 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
[Ie] Rated Operational Current	250 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 300 A (at <40 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	220 V AC 50 Hz

### Complementary

Motor Power Kw	75 kW at 220...230 V AC 50/60 Hz 132 kW at 380...400 V 140 kW at 415 V 140 kW at 440 V 160 kW at 500 V 160 kW at 660...690 V
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	36 A (at 55 °C)
Irms Rated Making Capacity	2500 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	2000 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	1800 A 40 °C - 10 s for power circuit
Associated Fuse Rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit
Average Impedance	0.32 mOhm - Ith 300 A 50 Hz for power circuit
Power Dissipation Per Pole	20 W AC-3 29 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	8 kV coil not connected to the power circuit conforming to IEC 60947

<b>Mechanical Durability</b>	500000 cycles
<b>Electrical Durability</b>	200000 cycles AC-1 700000 cycles AC-3
<b>Control Circuit Type</b>	AC at 50 Hz
<b>Control Circuit Voltage Limits</b>	0.85...1.1 Uc (55 °C):operational 50 Hz 0.35...0.55 Uc (55 °C):drop-out 50 Hz
<b>Inrush Power In Va</b>	805 VA 50 Hz cos phi 0.3 (at 20 °C) 970 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Hold-In Power Consumption In Va</b>	55 VA 50 Hz cos phi 0.3 (at 20 °C) 66 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Heat Dissipation</b>	18...24 W for control circuit
<b>Operating Time</b>	20...35 ms on closing 7...15 ms on opening
<b>Maximum Operating Rate</b>	1200 cyc/h 55 °C
<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 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: 185 mm Power circuit: bars 2 - busbar cross section: 32 x 4 mm
<b>Tightening Torque</b>	Control circuit: 1.2 N.m Power circuit: 35 N.m
<b>Minimum Switching Voltage</b>	17 V for control circuit
<b>Minimum Switching Current</b>	5 mA for control circuit
<b>Insulation Resistance</b>	> 10 MOhm for control circuit
<b>Non-Overlap Time</b>	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact
<b>Mounting Support</b>	Plate

## Environment

<b>Standards</b>	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1
<b>Product Certifications</b>	EAC CE
<b>Ip Degree Of Protection</b>	IP00 conforming to IEC 60529
<b>Permissible Ambient Air Temperature Around The Device</b>	-20...70 °C at Uc -60...80 °C storage -5...55 °C operation
<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 open (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms)
<b>Height</b>	197 mm
<b>Width</b>	168.5 mm

---

Depth	181 mm
-------	--------

---

Net Weight	4.7 kg
------------	--------

---

## Packing Units

---

Unit Type Of Package 1	PCE
------------------------	-----

---

Number Of Units In Package 1	1
------------------------------	---

---

Package 1 Height	22.0 cm
------------------	---------

---

Package 1 Width	24.5 cm
-----------------	---------

---

Package 1 Length	27.0 cm
------------------	---------

---

Package 1 Weight	5.45 kg
------------------	---------

---

Unit Type Of Package 2	P06
------------------------	-----

---

Number Of Units In Package 2	12
------------------------------	----

---

Package 2 Height	80.0 cm
------------------	---------

---

Package 2 Width	80.0 cm
-----------------	---------

---

Package 2 Length	60.0 cm
------------------	---------

---

Package 2 Weight	78.4 kg
------------------	---------

---

## Contractual warranty

---

Warranty	12 months
----------	-----------

---

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant with Exemptions

China Rohs Regulation [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information

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

Circularity Profile [End of Life Information](#)