

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ V 250A - 380 V AC coil

LC1E250Q5

### Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contactors
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: $\leq 690$ V AC 50/60 Hz
[Ie] rated operational current	250 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3 for power circuit 300 A (at $\leq 40$ °C) at $\leq 440$ V AC AC-1 for power circuit
[Uc] control circuit voltage	380 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
[I <sub>th</sub> ] 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
[I <sub>cw</sub> ] rated short-time withstand current	1800 A 40 °C - 10 s for power circuit
Associated fuse rating	10 A gG at $\leq 690$ V coordination type 1 for control circuit conforming to IEC 60947-5-1 315 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	0.32 mOhm - I <sub>th</sub> 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
[U <sub>imp</sub> ] rated impulse withstand voltage	8 kV coil not connected to the power circuit conforming to IEC 60947

<b>Mechanical durability</b>	5000000 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 U <sub>c</sub> (-5...55 °C):operational 50 Hz 0.35...0.55 U <sub>c</sub> (-5...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 U <sub>c</sub> -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

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Depth	181 mm
Net weight	4.7 kg

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## Packing Units

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21.5 cm
Package 1 Width	24 cm
Package 1 Length	26 cm
Package 1 Weight	5.4 kg
Unit Type of Package 2	P06
Number of Units in Package 2	8
Package 2 Height	77 cm
Package 2 Width	80 cm
Package 2 Length	60 cm
Package 2 Weight	57.404 kg
Unit Type of Package 3	S06
Number of Units in Package 3	12
Package 3 Height	73.5 cm
Package 3 Width	60 cm
Package 3 Length	80 cm
Package 3 Weight	77.8 kg

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## Contractual warranty

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Warranty	18 months
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## 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](#)

Offer Marketing Illustration

Product benefits / Features

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Easy TeSys Contactors  
Range Accessories

Mechanical interlock

Auxiliary contact block

Time delay auxiliary contact block

Terminal block

Suppressor module

The image displays a collection of accessories for Easy TeSys contactors. At the top left, a large contactor is shown against a green circular background. Below it, five different accessory components are arranged in two rows. Each component is accompanied by a text label: 'Mechanical interlock' (two black plastic pieces), 'Auxiliary contact block' (two black plastic blocks with orange inserts), 'Time delay auxiliary contact block' (a black plastic block with a circular dial), 'Terminal block' (a black plastic block with multiple terminals), and 'Suppressor module' (a tan plastic module with two terminals).

Offer Marketing Illustration

Product benefits / Features

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The image shows a Schneider Easy TeSys Contactor, a three-phase AC contactor. It is a dark grey plastic component with three main terminals on the top (labeled 1, 2, 3) and three on the bottom (labeled 4, 5, 6). A central control terminal is also visible. The Schneider logo and 'Easy TeSys Contactor' are printed on the side. The device is mounted on a DIN rail.

### Easy TeSys Contactors

#### Technical Benefits

- 9 sizes cover common applications from 6 to 630A.
- Designed to meet the requirements of Electro-domestic and HVAC applications.
- Various Relay Coil Voltages: A.C.
- It can cover -5°C to 55°C working temperature and mounted by DIN-rail, No derating up to 3000m altitude.
- 2.2kW to 335kW (AC3/400V)
- Multi-standards certified (IEC, CCC, EAC) and Green Premium compliant (RoHs/Reach).

Offer Marketing Illustration

Product benefits / Features

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## Easy TeSys Contactors

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**Designed for the essential**  
Deliver the best balance between performance and budget without any compromise on quality
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**Easy to use**  
Easier to install and operate with multi-standard screws
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**Cost-effective**  
Provides a cost-effective solution to a simple application



Technical Illustration

Assembly's dimensions

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