

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ V 250A - 240 V AC coil

LC1E250U5

### Main

|                                |  |
|--------------------------------|--|
| Range                          | Easy TeSys   |
| Range of product               | Easy TeSys Control   |
| Product or component type      | Contactors   |
| Device short name              | LC1E   |
| contactor application          | Motor control<br>Resistive load  |
| Utilisation category           | AC-1<br>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<br>300 A (at $\leq 40$ °C) at $\leq 440$ V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 240 V AC 50 Hz   |

### Complementary

|  |   |
|--|---|
| Motor power kW   | 75 kW at 220...230 V AC 50/60 Hz<br>132 kW at 380...400 V<br>140 kW at 415 V<br>140 kW at 440 V<br>160 kW at 500 V<br>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)   |
| I <sub>rms</sub> 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<br>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<br>29 W AC-1  |
| [U <sub>i</sub> ] 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  |

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|--|--|
| <b>Mechanical durability</b>           | 5000000 cycles   |
| <b>Electrical durability</b>           | 200000 cycles AC-1<br>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<br>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)<br>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)<br>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<br>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<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: cable with lug - external diameter: 185 mm<br>Power circuit: bars 2 - busbar cross section: 32 x 4 mm |
| <b>Tightening torque</b>               | Control circuit: 1.2 N.m<br>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<br>1.5 ms on de-energisation guaranteed between NC and NO contact  |
| <b>mounting support</b>                | Plate  |

## Environment

|  |  |
|--|--|
| <b>Standards</b>   | IEC 60947-1<br>IEC 60947-4-1<br>IEC 60947-5-1  |
| <b>product certifications</b>                                | EAC<br>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><br>-60...80 °C storage<br>-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)<br>Vibrations contactor closed (3 Gn, 5...300 Hz)<br>Shocks contactor open (6 Gn for 11 ms)<br>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 |
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|            |        |
|------------|--------|
| Net weight | 4.7 kg |
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## Packing Units

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|                        |     |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

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|                              |   |
|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

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|                  |         |
|------------------|---------|
| Package 1 Height | 21.5 cm |
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|                 |         |
|-----------------|---------|
| Package 1 Width | 24.0 cm |
|-----------------|---------|

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|                  |         |
|------------------|---------|
| Package 1 Length | 26.0 cm |
|------------------|---------|

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|                  |        |
|------------------|--------|
| Package 1 Weight | 5.4 kg |
|------------------|--------|

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|                        |     |
|------------------------|-----|
| Unit Type of Package 2 | S06 |
|------------------------|-----|

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|                              |    |
|------------------------------|----|
| Number of Units in Package 2 | 12 |
|------------------------------|----|

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|                  |         |
|------------------|---------|
| Package 2 Height | 73.5 cm |
|------------------|---------|

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|                 |         |
|-----------------|---------|
| Package 2 Width | 60.0 cm |
|-----------------|---------|

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|                  |         |
|------------------|---------|
| Package 2 Length | 80.0 cm |
|------------------|---------|

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|                  |         |
|------------------|---------|
| Package 2 Weight | 77.8 kg |
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## Contractual warranty

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|          |           |
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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



**Designed for the essential**

Deliver the best balance between performance and budget without any compromise on quality



**Easy to use**

Easier to install and operate with multi-standard screws



**Cost-effective**

Provides a cost-effective solution to a simple application



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 switching contacts and a central control coil. The top terminals are labeled 1, 2, 3, and 13 (NC). The bottom terminals are labeled 4, 5, 6, and 14 (NC). 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  
Range Accessories

Mechanical interlock

Auxiliary contact block

Time delay auxiliary contact block

Terminal block

Suppressor module

The image displays a collection of electrical 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 markings), 'Time delay auxiliary contact block' (a black block with a circular dial), 'Terminal block' (a black plastic block with multiple terminals), and 'Suppressor module' (a tan-colored plastic module with two terminals).

Technical Illustration

Assembly's dimensions

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