

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ V 9A - 48 V AC coil

LC1E0910E7

### 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 | 9 A (at $<55$ °C) at $\leq 440$ V AC AC-3 for power circuit<br>25 A (at $<55$ °C) at $\leq 440$ V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 48 V AC 50/60 Hz  |

### Complementary

|   |  |
|---|--|
| Motor power kW                              | 2.2 kW at 220...230 V AC 50/60 Hz<br>4 kW at 380...400 V<br>4 kW at 415 V<br>4 kW at 440 V<br>5.5 kW at 500 V<br>5.5 kW at 660...690 V                       |
| Pole contact composition                    | 3 NO   |
| [Ith] conventional free air thermal current | 25 A (at 55 °C) for power circuit  |
| Irms rated making capacity                  | 90 A at 440 V AC for power circuit conforming to IEC 60947-4-1   |
| Rated breaking capacity                     | 72 A at 440 V for power circuit conforming to IEC 60947  |
| [Icw] rated short-time withstand current    | 105 A 40 °C - 10 s for power circuit<br>61 A 40 °C - 60 s for power circuit<br>30 A 40 °C - 600 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>20 A gG at $\leq 690$ V coordination type 1 for power circuit |
| Average impedance                           | 2.5 mOhm - Ith 25 A 50 Hz for power circuit  |
| Power dissipation per pole                  | 0.2 W AC-3<br>1.6 W AC-1   |
| [Ui] rated insulation voltage               | 690 V conforming to IEC 60947-4-1  |
| Overvoltage category                        | III  |
| Pollution degree                            | 3  |

|   |  |
|---|--|
| <b>[Uimp] rated impulse withstand voltage</b> | 6 kV coil not connected to the power circuit conforming to IEC 60947   |
| <b>Mechanical durability</b>                  | 1000000 cycles   |
| <b>Electrical durability</b>                  | 1400000 cycles AC-3<br>150000 cycles AC-1  |
| <b>Control circuit type</b>                   | AC at 50/60 Hz   |
| <b>Control circuit voltage limits</b>         | 0.85...1.1 U <sub>c</sub> (-5...55 °C):operational 50/60 Hz<br>0.3...0.6 U <sub>c</sub> (-5...55 °C):drop-out 50/60 Hz   |
| <b>Inrush power in VA</b>                     | 95 VA 50 Hz cos phi 0.75 (at 20 °C)<br>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)<br>8.5 VA 60 Hz cos phi 0.3 (at 20 °C)   |
| <b>Heat dissipation</b>                       | 2...3 W for control circuit  |
| <b>Operating time</b>                         | 12...22 ms on closing<br>4...19 ms on opening  |
| <b>Maximum operating rate</b>                 | 1800 cyc/h 60 °C   |
| <b>Connections - terminals</b>                | Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Power 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...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 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with 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 |
| <b>Tightening torque</b>                      | Power circuit: 1.2 N.m<br>Control circuit: 1.2 N.m   |
| <b>Auxiliary contact composition</b>          | 1 NO   |
| <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<br>DIN rail  |

## Environment

|                                |  |
|--------------------------------|--|
| <b>Standards</b>               | IEC 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-1        |
| <b>product certifications</b>  | CE<br>EAC  |
| <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 |

|  |   |
|--|---|
| <b>Permissible ambient air temperature around the device</b> | -20...70 °C at Uc<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 (7 Gn for 11 ms)<br>Shocks contactor closed (10 Gn for 11 ms) |
| <b>Height</b>  | 74 mm   |
| <b>Width</b>   | 45 mm   |
| <b>Depth</b>   | 80 mm   |
| <b>Net weight</b>  | 0.3 kg  |

## Packing Units

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 5.000 cm  |
| <b>Package 1 Width</b>              | 7.700 cm  |
| <b>Package 1 Length</b>             | 8.700 cm  |
| <b>Package 1 Weight</b>             | 341.000 g |
| <b>Unit Type of Package 2</b>       | S02       |
| <b>Number of Units in Package 2</b> | 36        |
| <b>Package 2 Height</b>             | 15.000 cm |
| <b>Package 2 Width</b>              | 30.000 cm |
| <b>Package 2 Length</b>             | 40.000 cm |
| <b>Package 2 Weight</b>             | 12.781 kg |

## 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

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

**Reach Regulation** [REACH Declaration](#)

**Eu Rohs Directive** Compliant  
[EU RoHS Declaration](#)

**China Rohs Regulation** [China RoHS declaration](#)

**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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The image shows a Schneider Easy TeSys Contactor, a three-phase motor starter. It is a dark grey plastic component with three main terminals on 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  
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 background. Below it, five different accessories are presented with their respective labels: a mechanical interlock (two black plastic pieces), an auxiliary contact block (two black modules), a time delay auxiliary contact block (a black module with a circular dial), a terminal block (a black plastic component with multiple terminals), and a suppressor module (a tan-colored component with two terminals).

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



Technical Illustration

Assembly's dimensions

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