

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - <= 440 V 500A - 110 V AC coil

LC1E500F7

### 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-3 AC-1
poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	500 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 700 A (at <55 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

### Complementary

Motor power kW	147 kW at 220...230 V AC 50/60 Hz 250 kW at 380...400 V 280 kW at 415 V 295 kW at 440 V 335 kW at 500 V 355 kW at 660...690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	700 A (at 40 °C) for power circuit
Irms rated making capacity	5000 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	4000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	4200 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 60947-5-1 800 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	0.18 mOhm - Ith 700 A 50 Hz for power circuit
Power dissipation per pole	45 W AC-3 88 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>	4000000 cycles
<b>Electrical durability</b>	250000 cycles AC-1 600000 cycles AC-3
<b>Control circuit type</b>	AC at 50/60 Hz
<b>Control circuit voltage limits</b>	0.85...1.1 Uc (-5...55 °C):operational 50/60 Hz 0.35...0.5 Uc (-5...55 °C):drop-out 50/60 Hz
<b>Inrush power in VA</b>	1100 VA 50 Hz cos phi 0.9 (at 20 °C) 1100 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	18 VA 50 Hz cos phi 0.9 (at 20 °C) 18 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Heat dissipation</b>	18 W for control circuit 18 W
<b>Operating time</b>	100...170 ms on opening 40...75 ms on closing
<b>Maximum operating rate</b>	2400 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 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with 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 Power circuit: cable with lug 2 - external diameter: 240 mm Power circuit: bars 2 - busbar cross section: 40 x 5 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 60947-5-1 IEC 60947-1 IEC 60947-4-1
<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>	Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor open (9 Gn for 11 ms)
<b>Height</b>	400 mm

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<b>Width</b>	233 mm
<b>Depth</b>	232 mm
<b>Net weight</b>	11.35 kg

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## Packing Units

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<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	24.5 cm
<b>Package 1 Width</b>	28.5 cm
<b>Package 1 Length</b>	28.5 cm
<b>Package 1 Weight</b>	11.35 kg

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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 markings), '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



**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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mm  
[in]

