

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ V 630A - 220 V AC coil

LC1E630M7

### Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contactors
Device short name	LC1E
Contactors application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] rated operational current	630 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3 for power circuit 500 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3e for power circuit 1000 A (at $\leq 40$ °C) at $\leq 440$ V AC AC-1 for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

### Complementary

Motor power kW	185 kW at 220...230 V AC 50/60 Hz 335 kW at 380...400 V 375 kW at 415 V 400 kW at 440 V 400 kW at 500 V 450 kW at 660...690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	1000 A (at 40 °C) for power circuit
Irms rated making capacity	6300 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	5040 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	5050 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 60947-5-1 800 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	0.12 mOhm - Ith 1000 A 50 Hz for power circuit
Power dissipation per pole	48 W AC-3 120 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>	8 kV coil not connected to the power circuit conforming to IEC 60947
<b>Mechanical durability</b>	4000000 cycles
<b>Electrical durability</b>	200000 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 U <sub>c</sub> (-5...55 °C):operational 50/60 Hz 0.25...0.5 U <sub>c</sub> (-5...55 °C):drop-out 50/60 Hz
<b>Inrush power in VA</b>	1650 VA 50 Hz cos phi 0.9 (at 20 °C) 1650 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Hold-in power consumption in VA</b>	22 VA 50 Hz cos phi 0.9 (at 20 °C) 22 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Heat dissipation</b>	20 W for control circuit 20 W
<b>Operating time</b>	40...80 ms on closing 100...200 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 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 Power circuit: bars 2 - busbar cross section: 60 x 5 mm
<b>Tightening torque</b>	Control circuit: 1.2 N.m Power circuit: 58 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 60947-4-1 IEC 60947-1
<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>	Shocks contactor open (6 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor open (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz)

<b>Height</b>	304 mm
<b>width</b>	309 mm
<b>Depth</b>	255 mm
<b>Net weight</b>	18.6 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>	30.000 cm
<b>Package 1 Width</b>	46.500 cm
<b>Package 1 Length</b>	36.500 cm
<b>Package 1 Weight</b>	18.847 kg
<b>Unit Type of Package 2</b>	P06
<b>Number of Units in Package 2</b>	4
<b>Package 2 Height</b>	75.000 cm
<b>Package 2 Width</b>	60.000 cm
<b>Package 2 Length</b>	80.000 cm
<b>Package 2 Weight</b>	83.888 kg

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[How this information helps you >](#)

### Environmental footprint

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	7245
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	No
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EU RoHS Directive	Compliant with Exemptions
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REACH Regulation	<a href="#">REACH Declaration</a>
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China RoHS Regulation	<a href="#">China RoHS declaration</a>
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## Use Again

### Repack and remanufacture

Circularity Profile	<a href="#">End of Life Information</a>
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WEEE	
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The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Take-back

No

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Offer Marketing Illustration

Product benefits / Features

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The image shows a Schneider Easy TeSys Contactor, a three-phase industrial contactor. It is a dark grey plastic component with three main terminals on top (labeled 1, 2, 3) and three main terminals on the bottom (labeled 4, 5, 6). There are also auxiliary terminals on the side. The Schneider logo and 'Easy TeSys Contactor' are printed on the top. The device is shown against a green circular background.

### 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



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 six different accessories for Easy TeSys contactors. At the top left is a large black contactor. Below it are: 1) Mechanical interlock (two black plastic pieces), 2) Auxiliary contact block (two black modules with orange handles), 3) Time delay auxiliary contact block (a black module with a circular dial), 4) Terminal block (a black plastic component with multiple terminals), and 5) Suppressor module (a tan-colored component with two terminals).



Technical Illustration

Assembly's dimensions

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mm  
[in]

