

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ 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
Contactors Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] Rated Operational Current	500 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3 for power circuit 700 A (at $\leq 55$ °C) at $\leq 440$ 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 $\leq 690$ 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	0.18 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

<b>Width</b>	233 mm
<b>Depth</b>	232 mm
<b>Net Weight</b>	11.35 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>	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

## 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](#)