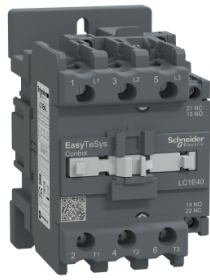


Product datasheet

Specifications



Easy TeSys contactor 3P(3 NO) - AC-3 - ≤ 440 V 40A - 24 V AC coil

LC1E40B7

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-1 AC-3 |
| poles description | 3P |
| [Ue] rated operational voltage | Power circuit: ≤ 690 V AC 50/60 Hz |
| [Ie] rated operational current | 40 A (at ≤ 55 °C) at ≤ 440 V AC AC-3 for power circuit 60 A (at ≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |

Complementary

| | |
|---|--|
| Motor power kW | 18.5 kW at 380...400 V 11 kW at 220...230 V AC 50/60 Hz 22 kW at 415 V 22 kW at 440 V 22 kW at 500 V 30 kW at 660...690 V |
| Pole contact composition | 3 NO |
| [Ith] conventional free air thermal current | 60 A (at 55 °C) |
| Irms rated making capacity | 400 A at 440 V AC for power circuit conforming to IEC 60947-4-1 |
| Rated breaking capacity | 320 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 320 A 40 °C - 10 s for power circuit 165 A 40 °C - 60 s for power circuit 72 A 40 °C - 600 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 80 A gG at ≤ 690 V coordination type 1 for power circuit |
| Average impedance | 1.5 mOhm - Ith 60 A 50 Hz for power circuit |
| Power dissipation per pole | 2.4 W AC-3 5.4 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 | 6 kV coil not connected to the power circuit conforming to IEC 60947 |
| Mechanical durability | 5000000 cycles |
| Electrical durability | 350000 cycles AC-1 900000 cycles AC-3 |
| Control circuit type | AC at 50/60 Hz |
| Control circuit voltage limits | 0.85...1.1 U _c (-5...55 °C):operational 50/60 Hz 0.3...0.6 U _c (-5...55 °C):drop-out 50/60 Hz |
| Inrush power in VA | 160 VA 50 Hz cos phi 0.75 (at 20 °C) 140 VA 60 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 15 VA 50 Hz cos phi 0.3 (at 20 °C) 13 VA 60 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 6...10 W for control circuit |
| Operating time | 20...26 ms on closing 8...12 ms on opening |
| Maximum operating rate | 1200 cyc/h 55 °C |
| Connections - terminals | Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.5...25 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.5...10 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.5...25 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.5...16 mm ² - cable stiffness: solid without cable end |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 5 N.m |
| Auxiliary contact composition | 1 NO + 1 NC |
| Minimum switching voltage | 17 V for control circuit |
| Minimum switching current | 5 mA for control circuit |
| Insulation resistance | > 10 MOhm for control circuit |
| Non-overlap time | 1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact |
| mounting support | Plate DIN rail |

Environment

| | |
|--------------------------------|--|
| Standards | IEC 60947-1 IEC 60947-5-1 IEC 60947-4-1 |
| product certifications | EAC CE |
| IP degree of protection | IP2X conforming to IEC 60529 |
| Protective treatment | TH (pollution degree 3) conforming to IEC 60068-2-30 test Db |

| | |
|--|--|
| Permissible ambient air temperature around the device | -20...70 °C at Uc -60...80 °C storage -5...55 °C operation |
| Operating altitude | 3000 m without derating |
| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
| Mechanical robustness | Vibrations contactor open (1.5 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms) |
| Height | 127 mm |
| Width | 75 mm |
| Depth | 114 mm |
| Net weight | 0.98 kg |

Packing Units

| | |
|-------------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 11.4 cm |
| Package 1 Width | 7.5 cm |
| Package 1 Length | 12.7 cm |
| Package 1 Weight | 980.0 g |

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-CO₂ 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

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



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



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 background. Below it, five different accessory components are presented with their respective labels: a mechanical interlock (two black plastic pieces), an auxiliary contact block (two grey modules), a time delay auxiliary contact block (a grey 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).

Technical Illustration

Assembly's dimensions

