

Product datasheet

Specifications



Easy TeSys contactor 4P(2 NO + 2 NC) - AC-1 - ≤ 415 V 100A - 110 V AC coil

LC1E25008F7IN

Main

| | |
|--------------------------------|---|
| Range | Easy TeSys |
| Range of product | Easy TeSys Control |
| Product or component type | Contacteur |
| Device short name | LC1E |
| contactor application | Resistive load |
| Utilisation category | AC-1 |
| poles description | 4P |
| [Ue] rated operational voltage | Power circuit: ≤ 690 V AC 50/60 Hz |
| [Ie] rated operational current | 50 A (at 40 °C) at ≤ 415 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 110 V AC 50/60 Hz |

Complementary

| | |
|---|--|
| Pole contact composition | 2 NO + 2 NC |
| [Ith] conventional free air thermal current | 50 A (at 40 °C) for power circuit |
| Irms rated making capacity | 250 A at 440 V AC for power circuit conforming to IEC 60947-4-1 |
| Rated breaking capacity | 200 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 240 A 40 °C - 10 s for power circuit 120 A 40 °C - 60 s for power circuit 50 A 40 °C - 600 s for power circuit |
| Associated fuse rating | 50 A gG at ≤ 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 |
| Average impedance | 2.5 mOhm - Ith 50 A 50 Hz for power circuit |
| Power dissipation per pole | 1.6 W AC-3 3.2 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 conforming to IEC 60947 |
| Mechanical durability | 10000000 cycles |
| Electrical durability | 1200000 cycles AC-3 350000 cycles AC-1 |
| Control circuit type | AC at 50/60 Hz |
| Control circuit voltage limits | 0.85...1.1 Uc ($-5...55$ °C):operational 50/60 Hz 0.3...0.6 Uc ($-5...55$ °C):drop-out 50/60 Hz |

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|--|---|
| Inrush power in VA | 95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 8.5 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 2...3 W for control circuit |
| Operating time | 12...22 ms on closing 4...19 ms on opening |
| Maximum operating rate | 1800 cyc/h 60 °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 1.5...10 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.5...10 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 1...10 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...6 mm ² - cable stiffness: flexible with cable end |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 1.5 N.m |
| Insulation resistance | > 10 MOhm for control circuit |
| mounting support | DIN rail Plate |

Environment

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|--|---|
| Standards | IEC 60947-5-1 IEC 60947-4-1 |
| IP degree of protection | IP2X conforming to IEC 60529 |
| Protective treatment | TH (pollution degree 3) conforming to IEC 60068 |
| Permissible ambient air temperature around the device | -20...70 °C at Uc -60...80 °C storage -5...55 °C operation |
| Operating altitude | 3000 m |
| 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 closed (10 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms) |
| Height | 64 mm |
| Width | 56 mm |
| Depth | 93 mm |
| Net weight | 0.52 kg |

Packing Units

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|-------------------------------------|-----|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |

| | |
|------------------------------|-----------|
| Package 1 Height | 9.3 cm |
| Package 1 Width | 5.6 cm |
| Package 1 Length | 8.4 cm |
| Package 1 Weight | 520 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 22 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 11.44 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 352 |
| Package 3 Height | 150 cm |
| Package 3 Width | 60 cm |
| Package 3 Length | 80 cm |
| Package 3 Weight | 183.04 kg |

Sustainability

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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[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](#)

Circularity Profile [End of Life Information](#)
