

Product datasheet

Specifications



Contactor, Easy TeSys Control, LC1E, 3P(3NO), AC-3, <=440V, 40A, 110V AC coil, 50Hz

LC1E40F5

Main

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|--------------------------------|--|
| Range | Easy TeSys |
| Range Of Product | Easy TeSys Control |
| Product Or Component Type | Contactor |
| 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 | 110 V AC 50 Hz |

Complementary

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| 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 |

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| [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 Hz |
| Control Circuit Voltage Limits | 0.85...1.1 Uc (55 °C):operational 50 Hz 0.3...0.6 Uc (55 °C):drop-out 50 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 | DIN rail Plate |

Environment

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|--------------------------------|--|
| Standards | IEC 60947-5-1 IEC 60947-1 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 |

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| 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

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| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 8.0 cm |
| Package 1 Width | 12.5 cm |
| Package 1 Length | 13.0 cm |
| Package 1 Weight | 979.0 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 9 |
| Package 2 Height | 15 cm |
| Package 2 Width | 30 cm |
| Package 2 Length | 40 cm |
| Package 2 Weight | 9.039 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 144 |
| Package 3 Height | 75 cm |
| Package 3 Width | 80 cm |
| Package 3 Length | 60 cm |
| Package 3 Weight | 152.624 kg |

Contractual warranty

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| Warranty | 18 months |
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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-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](#)