Product datasheet

Specifications





Easy TeSys contactor 4P(4NO) 60A AC-1 up to 415V coil 110V AC 50/60Hz

LC1E18004F7IN

Main

| Range | Easy TeSys | |
|--------------------------------|--|--|
| Range Of Product | Easy TeSys Control | |
| Product Or Component Type | Contactor | |
| 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 | 40 A (at <40 °C) at <= 415 V AC AC-1 for power circuit | |
| [Uc] Control Circuit Voltage | 110 V AC 50/60 Hz | |

Complementary

| complementary | | |
|---|---|--|
| Pole Contact Composition | 4 NO | |
| Irms Rated Making Capacity | 180 A at 440 V AC for power circuit conforming to IEC 60947-4-1 | |
| Rated Breaking Capacity | 144 A at 440 V for power circuit conforming to IEC 60947 | |
| [Icw] Rated Short-Time Withstand Current | d 145 A 40 °C - 10 s for power circuit 84 A 40 °C - 60 s for power circuit 40 A 40 °C - 600 s for power circuit | |
| Associated Fuse Rating | 40 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 | |
| Average Impedance | 2.5 mOhm - Ith 40 A 50 Hz for power circuit | |
| Power Dissipation Per Pole | 0.81 W AC-3 2.6 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 | 1000000 cycles | |
| Electrical Durability | 300000 cycles AC-1 1200000 cycles AC-3 | |
| Control Circuit Type | AC at 50/60 Hz | |
| Control Circuit Voltage Limits | 0.851.1 Uc (-555 °C):operational 50/60 Hz 0.30.6 Uc (-555 °C):drop-out 50/60 Hz | |

...0.6 Uc (-5...55 °C):drop-out 50/60 Hz

| 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) a 8.5 VA 50 Hz cos phi 0.21 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C) | |
|---|--|--|
| Hold-In Power Consumption In Va | | |
| Heat Dissipation | 23 W for control circuit | |
| Operating Time | 1222 ms on closing 419 ms on opening | |
| Maximum Operating Rate | 1800 cyc/h 60 °C | |
| Connections - Terminals | Power circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 16 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.56 mm ² - cable stiffness: solid without cable end | |
| Tightening Torque | Power circuit: 1.2 N.m Control circuit: 1.2 N.m | |
| 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

| 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 | -2070 °C at Uc -6080 °C storage -555 °C operation | |
| Operating Altitude | 3000 m | |
| Fire Resistance | 850 °C conforming to IEC 60695-2-1 | |
| Mechanical Robustness | Vibrations contactor open (1.5 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor open (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms) | |
| Height | 74 mm | |
| Width | 45 mm | |
| Depth | 80 mm | |
| Net Weight | 0.34 kg | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|--------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 8 cm |
| Package 1 Width | 4.5 cm |
| Package 1 Length | 7.4 cm |
| Package 1 Weight | 340 g |

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 |
| Circularity Profile | End of Life Information |