

Product datasheet

Specifications



Contact, Easy TeSys Control, LC1E, 3P(3NO), AC-3/AC-3e, <=440V, 65A, 24V AC coil, 60Hz

LC1E65B6

⚠ Discontinued on: May 19, 2023

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Main

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|--------------------------------|---|
| Range | Easy TeSys |
| Range of product | Easy TeSys Control |
| Product or component type | Contact |
| Device short name | LC1E |
| Contact application | Motor control Resistive load |
| Utilisation category | AC-3 AC-3e AC-1 |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 50/60 Hz |
| [Ie] rated operational current | 65 A (at <= 55 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <= 55 °C) at <= 440 V AC AC-3e for power circuit 80 A (at <= 55 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] control circuit voltage | 24 V AC 60 Hz |

Complementary

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| Motor power kW | 18.5 kW at 220/230 V AC 50/60 Hz 30 kW at 380/400 V AC 37 kW at 415/440 V AC 37 kW at 500 V AC 37 kW at 660/690 V AC 37 kW at 660...690 V |
| Pole contact composition | 3 NO |
| [Ith] conventional free air thermal current | 80 A (at 55 °C) for power circuit |
| Irms rated making capacity | 845 A at 440 V AC for power circuit conforming to IEC 60947-4-1 |
| Rated breaking capacity | 552.5 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 520 A 40 °C - 10 s for power circuit 260 A 40 °C - 60 s for power circuit 110 A 40 °C - 600 s for power circuit |
| Associated fuse rating | 125 A gG at <= 690 V coordination type 1 for power circuit 10 A gG at <= 690 V for auxiliary contact circuit conforming to IEC 60947-5-1 |
| Average impedance | 1 mOhm - Ith 80 A 50 Hz for power circuit |
| Power dissipation per pole | 4.2 W AC-3 6.4 W AC-1 |
| [Ui] rated insulation voltage | 690 V conforming to IEC 60947-4-1 |
| Overvoltage category | III |

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| 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 60 Hz |
| Control circuit voltage limits | 0.85...1.1 U _c (-5...55 °C):operational 60 Hz 0.3...0.6 U _c (-5...55 °C):drop-out 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 60 °C |
| Connections - terminals | Power circuit: screw clamp terminals 1 2.5...25 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 2.5...10 mm ² - cable stiffness: flexible 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...16 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 Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 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...4 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 |
| 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 auxiliary contact circuit |
| Minimum switching current | 5 mA for auxiliary contact circuit |
| Insulation resistance | > 10 MOhm for auxiliary contact 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 | EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.1 GB/T 14048.4 GB/T 14048.5 EN/IEC 60335-1:Clause 30.2 EN/IEC 60335-2-40:Annex JJ |
| Product certifications | CB Scheme CCC CE EAC |
| 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 |
| Product weight | 0.98 kg |

Packing Units

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

Contractual warranty

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| Warranty (in months) | 18 |
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins