

LC1D65B7

IEC contactor, TeSys D, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VAC 50/60Hz coil, open



Main

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|--------------------------------|---|
| Range | TeSys |
| Range of Product | TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contactor application | Resistive load Motor control |
| Utilisation category | AC-4 AC-1 AC-2 AC-3e AC-1 |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 65 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit 65 A 140 °F (60 °C) <= 440 V AC AC-3e power circuit 65 A 140 °F (60 °C) 24 V AC AC-3 power circuit 80 A 140 °F (60 °C) 24 V AC AC-1 power circuit |
| [Uc] control circuit voltage | 24 V AC 50/60 Hz |

Complementary

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|---|---|
| Motor power kW | 11 KW 400 V AC 50 Hz AC-4) 30 KW 380...400 V AC 50 Hz AC-3) 37 KW 500 V AC 50 Hz AC-3) 37 KW 660...690 V AC 50 Hz AC-3) 18.5 KW 220...230 V AC 50 Hz AC-3) 30 KW 415 V AC 50 Hz AC-3) 37 KW 1000 V AC 50 Hz AC-3) 30 KW 440 V AC 50 Hz AC-3e) 30 KW 380...400 V AC 50 Hz AC-3e) 37 KW 500 V AC 50 Hz AC-3e) 37 KW 660...690 V AC 50 Hz AC-3e) 18.5 KW 220...230 V AC 50 Hz AC-3e) 30 KW 415 V AC 50 Hz AC-3e) 37 KW 1000 V AC 50 Hz AC-3e) 37 KW 500 V AC 50 Hz 30 kW 380...400 V AC 50 Hz |
| Maximum Horse Power Rating | 10 Hp 230/240 V at AC 60 Hz for 1 phase 20 Hp 200/208 V at AC 60 Hz for 3 phase 20 Hp 230/240 V at AC 60 Hz for 3 phase 40 Hp 460/480 V at AC 60 Hz for 3 phase 50 Hp 575/600 V at AC 60 Hz for 3 phase 5 hp 115 V at AC 60 Hz for 1 phase |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Protective cover | With |
| [Ith] conventional free air thermal current | 80 A 140 °F (60 °C) power circuit 10 A 140 °F (60 °C) control circuit |
| Irms rated making capacity | 140 A 440 V AC control circuit IEC 60947-5-1 140 A AC control circuit IEC 60947-5-1 1000 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 1000 kA 440 V power circuit IEC 60947 |

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| [I _{cw}] rated short-time withstand current | 520 A 104 °F (40 °C) - 10 s power circuit 900 A 104 °F (40 °C) - 1 s power circuit |
| Associated fuse rating | 125 A gG ≤ 690 V type 2 power circuit 160 A gG ≤ 690 V type 1 power circuit IEC 60947-5-1 125 A gG ≤ 690 V type 1 power circuit 10 A gG control circuit IEC 60947-5-1 |
| Average impedance | 1.5 Ohm - I _{th} 80 A 50 Hz power circuit |
| Power dissipation per pole | 6.4 W AC-1 4.2 W AC-3e 6.3 W AC-3 9.6 W AC-1 |
| [U _i] rated insulation voltage | Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL IEC 60947-1 Control circuit 690 V IEC 60947-1 Power circuit 690 V CSA IEC 60947-1 Control circuit 600 V CSA |
| Overvoltage category | III |
| [U _{imp}] rated impulse withstand voltage | 6 kV IEC 60947 |
| Safety reliability level | B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 6000000 cycles |
| Control circuit type | AC 50/60 Hz |
| Coil technology | Without built-in |
| Control circuit voltage limits | 0.8...1.1 U _c -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 U _c -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 U _c 140...158 °F (60...70 °C) operational AC 50/60 Hz 0.3...0.6 U _c -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz |
| Inrush power in VA | 160 VA 0.75 68 °F (20 °C)) 140 VA 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 15 VA 50 Hz 0.3 68 °F (20 °C)) 13 VA 60 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 4...5 W 50/60 Hz control circuit |
| Operating time | 12...26 ms closing 4...19 ms opening |
| Maximum operating rate | 3600 cyc/mn 140 °F (60 °C) |
| Connections - terminals | Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) rigid without cable end Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) flexible without cable end Control circuit screw clamp terminals 1 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in ² (1...2.5 mm ²) flexible with cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) rigid Power circuit screw terminals 2 0.00...0.02 in ² (2.5...16 mm ²) rigid without cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) flexible without cable end Power circuit screw terminals 2 0.00...0.02 in ² (2.5...16 mm ²) flexible without cable end Power circuit screw terminals 1 0.00...0.04 in ² (2.5...25 mm ²) flexible with cable end Power circuit screw terminals 2 0.00...0.02 in ² (2.5...10 mm ²) flexible with cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²) rigid Control circuit screw clamp terminals 1 0.00...0.01 in ² (1...4 mm ²) rigid |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm |
| Auxiliary contact composition | 1 NO + 1 NC |
| Auxiliary contacts type | Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1 |
| Minimum switching voltage | 17 V control circuit |
| Minimum switching current | 5 mA control circuit |
| Insulation resistance | > 10 MOhm control circuit |

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| Non-overlap time | 1.5 Ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts |
| Mounting Support | Rail Rail |

Environment

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| Standards | UL 508 EN 60947-5-1 EN 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 |
| Product Certifications | UL CCC BV GL GOST RINA LROS (Lloyds register of shipping) DNV UKCA GL |
| IP degree of protection | IP2X VDE 0106 IP2X IEC 60529 |
| Protective treatment | TH 3)IEC 60068-2-30 |
| Climatic withstand | IACS E10 exposure to damp heat |
| Operating altitude | 0...9842.52 ft (0...3000 m) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor opened 10 Gn for 11 ms) |
| Height | 4.80 in (122 mm) |
| Width | 2.76 in (70 mm) |
| Depth | 4.65 in (118 mm) |
| Product Weight | 4.82 lb(US) (2.185 kg) |
| Quantity per Set | Set of 10 |

Ordering and shipping details

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|-------------------|----------------------------------|
| Category | 22357-CTR,TESYS D,OPEN,40-65A AC |
| Discount Schedule | I12 |
| GTIN | 3389110436211 |
| Returnability | Yes |
| Country of origin | CZ |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 3.74 in (9.5 cm) |
| Package 1 Width | 5.20 in (13.2 cm) |
| Package 1 Length | 5.51 in (14.0 cm) |
| Package 1 Weight | 3.20 lb(US) (1.452 kg) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 5 |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 Width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |
| Package 2 Weight | 16.72 lb(US) (7.586 kg) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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