

LC1D40ABNE

IEC contactor, TeSys Deca Green,
nonreversing, 40A, 30HP at 480VAC, up to
100kA SCCR, 3 phase, 3 NO, 24/60VAC/VDC
coil



Main

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| Range | TeSys TeSys Deca |
| Product name | TeSys D Green TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| Contactors application | Resistive load Motor control |
| Utilisation category | AC-3 AC-1 AC-3e |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 60 A 140 °F (60 °C) <= 440 V AC-1 power circuit 40 A 140 °F (60 °C) <= 440 V AC-3 power circuit 40 A 140 °F (60 °C) <= 440 V AC-3e power circuit |
| Motor power kW | 11 kW 220...230 V AC 50 Hz AC-3) 18.5 kW 380...400 V AC 50 Hz AC-3) 22 kW 415 V AC 50 Hz AC-3) 22 kW 440 V AC 50 Hz AC-3) 22 kW 500 V AC 50 Hz AC-3) 30 kW 660...690 V AC 50 Hz AC-3) 11 kW 220...230 V AC 50 Hz AC-3e) 18.5 kW 380...400 V AC 50 Hz AC-3e) 22 kW 415 V AC 50 Hz AC-3e) 22 kW 440 V AC 50 Hz AC-3e) 22 kW 500 V AC 50 Hz AC-3e) 30 kW 660...690 V AC 50 Hz AC-3e) |
| Motor power HP (UL / CSA) | 3 Hp 115 V at AC 60 Hz for 1 phase 5 Hp 230/240 V at AC 60 Hz for 1 phase 10 Hp 200/208 V at AC 60 Hz for 3 phase 10 Hp 230/240 V at AC 60 Hz for 3 phase 30 Hp 460/480 V at AC 60 Hz for 3 phase 30 hp 575/600 V at AC 60 Hz for 3 phase |
| [Uc] control circuit voltage | 24...60 V AC 50/60 Hz 24...60 V DC |
| Coil type | AC/DC electronic |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 60 A 140 °F (60 °C) power circuit 10 A 140 °F (60 °C) signalling circuit |
| Irms rated making capacity | 800 A 440 V power circuit IEC 60947 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 |
| Rated breaking capacity | 800 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 72 A 104 °F (40 °C) - 10 min power circuit 165 A 104 °F (40 °C) - 1 min power circuit 320 A 104 °F (40 °C) - 10 s power circuit 720 A 104 °F (40 °C) - 1 s power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit |
| Associated fuse rating | 80 A gG <= 690 V type 1 power circuit 80 A gG <= 690 V type 2 power circuit 10 A gG signalling circuit IEC 60947-5-1 |
| Average impedance | 1.5 mOhm - Ith 60 A 50 Hz power circuit |
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 |

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| Electrical durability | 2 Mcycles 35 A AC-3 <= 440 V 0.7 Mcycles 60 A AC-1 <= 440 V 2 Mcycles 35 A AC-3e <= 440 V |
| Power dissipation per pole | 5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e |
| Front cover | With |
| Mounting Support | Plate Rail |
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1 |
| Product certifications | CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA |
| Connections - terminals | 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... 0.01 in ² (1...4 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 Control circuit screw clamp terminals 1 0.00... 0.01 in ² (1...4 mm ²)solid Control circuit screw clamp terminals 2 0.00... 0.01 in ² (1...4 mm ²)solid Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in ² (1...35 mm ²)solid Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)flexible without cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in ² (1...25 mm ²)solid |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in ² (25...35 mm ²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.00...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm) Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals pozidriv No 2 M4 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5 |
| Operating time | 55...65 ms closing 20...120 ms opening >= 17221) 20...80 ms opening >= 18011) |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| Mechanical durability | 6 Mcycles |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

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| Coil technology | Built-in bidirectional peak limiting |
| Control circuit voltage limits | <= 0.1 Uc -40...158 °F (-40...70 °C) drop-out AC/DC 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational DC 1...1.1 Uc 140...158 °F (60...70 °C) operational AC/DC |
| Inrush power in VA | 15 VA 50/60 Hz 68 °F (20 °C)) |
| Inrush power in W | 16 W 68 °F (20 °C) |
| Hold-in power consumption in VA | 1 VA 68 °F (20 °C)) 50/60 Hz |
| Hold-in power consumption in W | 0.7 W 68 °F (20 °C) |
| Heat dissipation | 0.7 W 50/60 Hz |
| Auxiliary contacts type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| Signalling circuit frequency | 25...400 Hz |
| Minimum switching current | 5 mA signalling circuit |
| Minimum switching voltage | 17 V signalling circuit |
| Non-overlap time | 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact |
| Insulation resistance | > 10 MOhm signalling circuit |

Environment

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| IP degree of protection | IP20 front face IEC 60529 |
| Climatic withstand | IACS E10 IEC 60947-1 Annex Q category D |
| Pollution degree | 3 |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Operating altitude | 0...9842.52 ft (0...3000 m) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Mechanical robustness | Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| Height | 4.80 in (122 mm) |
| Width | 2.17 in (55 mm) |
| Depth | 4.72 in (120 mm) |
| Net Weight | 2.19 lb(US) (0.992 kg) |
| Color | Gray SE GREY 6) Green SE GREEN 2) |

Ordering and shipping details

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| Category | 22356-CTR, TESYS D, OPEN, 9-65A AC/DC GREEN |
| Discount Schedule | I12 |
| GTIN | 3606480988202 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.31 lb(US) (1.05 kg) |
| Returnability | Yes |
| Country of origin | FR |

Packing Units

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|------------------------------|-------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 2.44 in (6.2 cm) |
| Package 1 width | 5.39 in (13.7 cm) |
| Package 1 Length | 5.98 in (15.2 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 9 |

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| Package 2 Weight | 21.81 lb(US) (9.891 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| 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. |
| Halogen content performance | Halogen free plastic parts & cables product |

Contractual warranty

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| Warranty | 18 months |
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