

LC1D65ABD

IEC contactor, TeSys Deca, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style





Main

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|---|---|
| Range | TeSys TeSys Deca |
| Product name | TeSys D TeSys Deca |
| Product or Component Type | Contacteur |
| Device short name | LC1D |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-4 AC-1 AC-3 AC-3e |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 80 A 140 °F (60 °C)) <= 440 V AC AC-1 power circuit 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 |
| Motor power kW | 11 KW 400 V AC 50/60 Hz AC-4) 18.5 KW 220...230 V AC 50/60 Hz AC-3) 30 KW 380...400 V AC 50/60 Hz AC-3) 37 KW 500 V AC 50/60 Hz AC-3) 37 KW 660...690 V AC 50/60 Hz AC-3) 18.5 KW 220...230 V AC 50/60 Hz AC-3e) 30 KW 380...400 V AC 50/60 Hz AC-3e) 37 KW 500 V AC 50/60 Hz AC-3e) 37 kW 660...690 V AC 50/60 Hz AC-3e) |
| Motor power HP (UL / CSA) | 40 Hp 460/480 V at AC 50/60 Hz for 3 phase 5 Hp 115 V at AC 50/60 Hz for 1 phase 10 Hp 230/240 V at AC 50/60 Hz for 1 phase 20 Hp 200/208 V at AC 50/60 Hz for 3 phase 20 Hp 230/240 V at AC 50/60 Hz for 3 phase 50 hp 575/600 V at AC 50/60 Hz for 3 phase |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 24 V DC |
| 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 | 10 A 140 °F (60 °C) signalling circuit 80 A 140 °F (60 °C) power circuit |
| Irms rated making capacity | 140 A AC signalling circuit IEC 60947-5-1 250 A DC signalling circuit IEC 60947-5-1 1000 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 1000 A 440 V power circuit IEC 60947 |
| [Icw] 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 110 A 104 °F (40 °C) - 10 min power circuit 260 A 104 °F (40 °C) - 1 min power circuit 100 A - 1 s signalling circuit 120 A - 500 ms signalling circuit 140 A - 100 ms signalling circuit |
| Associated fuse rating | 10 A gG signalling circuit IEC 60947-5-1 125 A gG <= 690 V type 1 power circuit 125 A gG <= 690 V type 2 power circuit |
| Average impedance | 1.5 mOhm - Ith 80 A 50 Hz power circuit |

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| [Ui] rated insulation voltage | Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 690 V IEC 60947-4-1 |
| Electrical durability | 0.5 Mcycles 80 A AC-1 <= 440 V 1.45 Mcycles 65 A AC-3 <= 440 V 1.45 Mcycles 65 A AC-3e <= 440 V |
| Power dissipation per pole | 9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e |
| Front cover | With |
| Mounting Support | Plate Rail |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 |
| Product Certifications | GOST UL CCC CSA |
| Connections - terminals | Control circuit screw clamp terminals 2 0.00...0.01 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)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 1 0.00...0.01 in ² (1...4 mm ²)solid without cable end Control circuit screw clamp terminals 2 0.00...0.01 in ² (1...4 mm ²)solid without cable end Power circuit screw connection 1 0.00...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit screw connection 2 0.00...0.04 in ² (1...25 mm ²)flexible without cable end Power circuit screw connection 1 0.00...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit screw connection 2 0.00...0.04 in ² (1...25 mm ²)flexible with cable end Power circuit screw connection 1 0.00...0.05 in ² (1...35 mm ²)solid without cable end Power circuit screw connection 2 0.00...0.04 in ² (1...25 mm ²)solid without cable end |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors 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) Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No 2 Power circuit 22.13 lbf.in (2.5 N.m) EverLink BTR screw connectors pozidriv No 2 EverLink BTR screw connectors |
| Operating time | 42.5...57.5 ms closing 16...24 ms opening |
| 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 | 10 Mcycles |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |

Complementary

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|--------------------------------|---|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC 0.75...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC |
| Time constant | 34 ms |
| Inrush power in W | 19 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 7.4 W 68 °F (20 °C) |
| 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 |
| Protective treatment | TH IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| 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 closed15 Gn for 11 ms Shocks contactor open10 Gn for 11 ms |
| Height | 4.80 in (122 mm) |
| Width | 2.17 in (55 mm) |
| Depth | 4.72 in (120 mm) |
| Net Weight | 2.06 lb(US) (0.935 kg) |

Ordering and shipping details

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|-----------------------|-------------------------------------|
| Category | 22358-CTR, TESYS D, OPEN, 40-65A DC |
| Discount Schedule | I12 |
| GTIN | 3389119409094 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 2.21 lb(US) (1.004 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 | 5.28 in (13.4 cm) |
| Package 1 Length | 5.98 in (15.2 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 10 |
| Package 2 Weight | 22.91 lb(US) (10.39 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |

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|------------------------------|---------------------------|
| Package 2 Length | 15.75 in (40 cm) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Weight | 385.24 lb(US) (174.74 kg) |
| Package 3 Height | 30.31 in (77 cm) |
| Package 3 width | 31.50 in (80 cm) |
| Package 3 Length | 23.62 in (60 cm) |

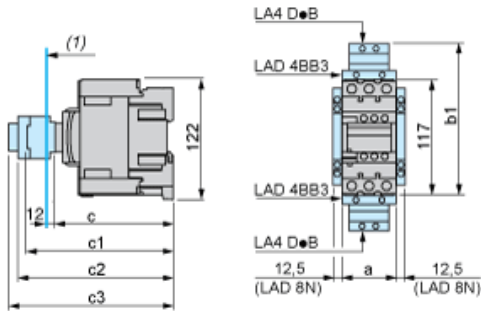
Offer Sustainability

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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 |
| 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. |
| PVC free | Yes |

Contractual warranty

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| Warranty | 18 months |
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Dimensions



(1) Minimum electrical clearance

| LC1 | | D40A...D65A |
|-----|------------------------------------|-------------|
| a | | 55 |
| b1 | with LAD 4BB3 | 136 |
| | with LA4 DF, DT | 157 |
| c | without cover or add-on blocks | 118 |
| | with cover, without add-on blocks | 120 |
| c1 | with LAD N (1 contact) | - |
| | with LAD N or C (2 or 4 contacts) | 150 |
| c2 | with LA6 DK10 | 163 |
| c3 | with LAD T, R, S | 171 |
| | with LAD T, R, S and sealing cover | 175 |

Wiring

