

LC2D40ASD

TeSys D reversing contactor - 3P(3 NO) - AC-3 -
≤ 440 V 40 A - 72 V DC coil

Price* : 692.00 USD



⚠ Discontinued

LC2D40ASD has not been replaced. Please contact your customer care center for more information.

Main

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| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Reversing contactor |
| Device short name | LC2D |
| Contacteur application | Motor control Resistive load |
| Utilisation category | AC-1 AC-3 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| System Voltage | AC 25...400 Hz for power circuit DC for power circuit |
| [Ie] rated operational current | 40 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-3 power circuit 60 A (≤ 140 °F (60 °C)) at ≤ 440 V AC AC-1 power circuit |
| Motor power kW | 22 kW at 500 V AC 50 Hz 18.5 kW at 380...400 V AC 50 Hz 30 kW at 660...690 V AC 50 Hz 22 kW at 415...440 V AC 50 Hz 11 kW at 220...230 V AC 50 Hz |
| Motor power HP (UL / CSA) | 5 hp at 230/240 V AC 60 Hz 1 phase motors 10 hp at 230/240 V AC 60 Hz 3 phases motors 3 hp at 115 V AC 60 Hz 1 phase motors 10 hp at 200/208 V AC 60 Hz 3 phases motors 30 hp at 460/480 V AC 60 Hz 3 phases motors 30 hp at 575/600 V AC 60 Hz 3 phases motors |
| Control circuit type | DC standard |
| [Uc] control circuit voltage | 72 V DC |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 60 A at ≤ 140 °F (60 °C) power circuit 10 A at ≤ 140 °F (60 °C) signalling circuit |
| Irms rated making capacity | 800 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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| Rated breaking capacity | 800 A at 440 V power circuit conforming to IEC 60947 |
| [I _{cw}] rated short-time withstand current | 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A ≤ 104 °F (40 °C) 10 s power circuit 720 A ≤ 104 °F (40 °C) 1 s power circuit 72 A ≤ 104 °F (40 °C) 10 min power circuit 165 A ≤ 104 °F (40 °C) 1 min power circuit |
| Associated fuse rating | 80 A gG at ≤ 690 V coordination type 1 power circuit 80 A gG at ≤ 690 V coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 1.5 mOhm at 50 Hz - I _{th} 60 A power circuit |
| [U _i] rated insulation voltage | 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL |
| Electrical durability | 1.5 Mcycles 40 A AC-3 at U _e ≤ 440 V 0.7 Mcycles 60 A AC-1 at U _e ≤ 440 V |
| Power dissipation per pole | 5.4 W AC-1 2.4 W AC-3 |
| Safety cover | With |
| Interlocking type | Mechanical |
| 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 |
| Product certifications | CCC CSA GOST UL |
| Connections - terminals | Control circuit: screw clamp terminals 2 cable(s) 0...0 in ² (1...2.5 mm ²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 0...0.05 in ² (1...35 mm ²) - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 0...0.05 in ² (1...35 mm ²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 0...0.05 in ² (1...35 mm ²) - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 0...0.04 in ² (1...25 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 0...0.01 in ² (1...4 mm ²) - cable stiffness: solid - without cable end |
| Tightening torque | Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 70.8 lbf.in (8 N.m) - on EverLink BTR screw connectors - cable 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) - on EverLink BTR screw connectors - cable 0...0.04 in ² (1...25 mm ²) hexagonal 0.16 in (4 mm) |
| Operating time | 16...24 ms opening 42.5...57.5 ms closing |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 |

B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1

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| Mechanical durability | 10 Mcycles |
| Operating rate | <= 3600 cyc/h at <= 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 drop-out at 140 °F (60 °C), DC 0.75...1.25 Uc operational at 140 °F (60 °C), DC |
| Time constant | 34 ms |
| Inrush power in W | 19 W at 68 °F (20 °C) |
| Hold-in power consumption in W | 7.4 W at 68 °F (20 °C) |
| Auxiliary contacts type | Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1 |
| Signalling circuit frequency | 25...400 Hz |
| Minimum switching current | 5 mA signalling circuit |
| Minimum switching voltage | 17 V |
| 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 conforming to IEC 60529 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | 23...140 °F (-5...60 °C) |
| Ambient air temperature for storage | -76...176 °F (-60...80 °C) |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C) at Uc |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Fire resistance | 1562 °F (850 °C) conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms |
| Height | 4.8 in (122 mm) |
| Width | 4.69 in (119 mm) |
| Depth | 4.72 in (120 mm) |
| Product weight | 4.45 lb(US) (2.02 kg) |

Ordering and shipping details

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| Category | 22358 - CTR, TESYS D, OPEN, 40-65A DC |
| Discount Schedule | I12 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 4.6200000000000001 |
| Returnability | N |
| Country of origin | FR |

Contractual warranty

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| Warranty period | 18 months |
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