

Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 32A, 20HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 220VAC 50/60Hz coil, open

LC1D32M7

Product availability : Stock - Normally stocked in distribution facility

Price* : 206.40 USD

Main

| | |
|--------------------------------|---|
| Range of Product | TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| Contactors application | Resistive load Motor control |
| Utilisation category | AC-4 AC-1 AC-3 AC-3e |
| Poles description | 3P |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC |
| [Ie] rated operational current | 32 A 140 °F (60 °C) <= 440 V AC AC-3 power circuit 50 A 140 °F (60 °C) <= 440 V AC AC-1 power circuit 32 A 140 °F (60 °C) <= 440 V AC AC-3e power circuit |
| [Uc] control circuit voltage | 220 V AC 50/60 Hz |

Complementary

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|----------------------------|---|
| Motor power kW | 7.5 kW 220...230 V AC 50/60 Hz AC-3) 15 kW 380...400 V AC 50/60 Hz AC-3) 15 kW 415...440 V AC 50/60 Hz AC-3) 18.5 kW 500 V AC 50/60 Hz AC-3) 18.5 kW 660...690 V AC 50/60 Hz AC-3) 7.5 kW 400 V AC 50/60 Hz AC-4) 7.5 kW 220...230 V AC 50/60 Hz AC-3e) 15 kW 380...400 V AC 50/60 Hz AC-3e) 15 kW 415...440 V AC 50/60 Hz AC-3e) 18.5 kW 500 V AC 50/60 Hz AC-3e) 18.5 kW 660...690 V AC 50/60 Hz AC-3e) |
| Maximum Horse Power Rating | 2 hp 115 V at AC 50/60 Hz for 1 phase 5 hp 230/240 V at AC 50/60 Hz for 1 phase 7.5 hp 200/208 V at AC 50/60 Hz for 3 phase 10 hp 230/240 V at AC 50/60 Hz for 3 phase 20 hp 460/480 V at AC 50/60 Hz for 3 phase 30 hp 575/600 V at AC 50/60 Hz for 3 phase |
| Compatibility code | LC1D |
| Pole contact composition | 3 NO |
| Contact compatibility | M2 |

* Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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| Protective cover | With |
| [Ith] conventional free air thermal current | 10 A 140 °F (60 °C) signalling circuit 50 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 60947-5-1 550 A 440 V power circuit IEC 60947 |
| Rated breaking capacity | 550 A 440 V power circuit IEC 60947 |
| [Icw] rated short-time withstand current | 260 A 104 °F (40 °C) - 10 s power circuit 430 A 104 °F (40 °C) - 1 s power circuit 60 A 104 °F (40 °C) - 10 min power circuit 138 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 63 A gG ≤ 690 V type 1 power circuit 63 A gG ≤ 690 V type 2 power circuit |
| Average impedance | 2 mOhm - Ith 50 A 50 Hz power circuit |
| Power dissipation per pole | 2 W AC-3 5 W AC-1 2 W AC-3e |
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 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 |
| Overvoltage category | III |
| Pollution degree | 3 |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| 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 | 15 Mcycles |
| Electrical durability | 1.65 Mcycles 32 A AC-3 ≤ 440 V 1.4 Mcycles 50 A AC-1 ≤ 440 V 1.65 Mcycles 32 A AC-3e ≤ 440 V |
| Control circuit type | AC 50/60 Hz standard |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | 0.3...0.6 U _c -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 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 |
| Inrush power in VA | 70 VA 60 Hz 0.75 68 °F (20 °C)) 70 VA 50 Hz 0.75 68 °F (20 °C)) |
| Hold-in power consumption in VA | 7.5 VA 60 Hz 0.3 68 °F (20 °C)) 7 VA 50 Hz 0.3 68 °F (20 °C)) |
| Heat dissipation | 2...3 W 50/60 Hz |
| Operating time | 12...22 ms closing 4...19 ms opening |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| 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 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 clamp terminals 1 0.00...0.02 in ² (2.5...10 mm ²) flexible without cable end Power circuit screw clamp terminals 2 0.00...0.02 in ² (2.5...10 mm ²) flexible without cable end Power circuit screw clamp terminals 1 0.00...0.02 in ² (1...10 mm ²) flexible with cable end Power circuit screw clamp terminals 2 0.00...0.01 in ² (1.5...6 mm ²) flexible with cable end Power circuit screw clamp terminals 1 0.00...0.02 in ² (1.5...10 mm ²) solid without cable end Power circuit screw clamp terminals 2 0.00...0.02 in ² (2.5...10 mm ²) solid without cable end |
| 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 22.13 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm
 Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals Philips No 2
 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
 Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2

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|--------------------------------------|---|
| Auxiliary contact composition | 1 NO + 1 NC |
| 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 voltage | 17 V signalling circuit |
| Minimum switching current | 5 mA signalling circuit |
| Insulation resistance | > 10 MOhm 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 |
| Mounting Support | Plate Rail |

Environment

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| 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 | DNV RINA LROS (Lloyds register of shipping) CCC CSA GL GOST BV UL UKCA |
| IP degree of protection | IP20 front face IEC 60529 |
| Protective treatment | THIEC 60068-2-30 |
| Climatic withstand | IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat |
| Permissible ambient air temperature around the device | -40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating |
| 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 | Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor closed 15 Gn for 11 ms) Shocks contactor open 8 Gn for 11 ms) |
| Height | 3.35 in (85 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 3.62 in (92 mm) |
| Net Weight | 0.83 lb(US) (0.375 kg) |

Ordering and shipping details

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|--------------------------|------------------------------------|
| Category | 22354-CTR, TESYS D, OPEN, 9-38A AC |
| Discount Schedule | I12 |
| GTIN | 3389110351088 |
| Returnability | Yes |
| Country of origin | ID |

Packing Units

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|------------------------------|---------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 1.97 in (5 cm) |
| Package 1 Width | 3.62 in (9.2 cm) |
| Package 1 Length | 4.41 in (11.2 cm) |
| Package 1 Weight | 14.46 oz (410 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 20 |
| 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 | 18.74 lb(US) (8.502 kg) |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 160 |
| Package 3 Height | 17.72 in (45 cm) |
| Package 3 Width | 23.62 in (60 cm) |
| Package 3 Length | 31.50 in (80 cm) |
| Package 3 Weight | 167.59 lb(US) (76.016 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 Pro-active China RoHS declaration (out of China RoHS legal scope) |
| 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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Dimensions



- (1) Including LAD 4BB
- (2) Minimum electrical clearance

| LC1 | | D25...D38 (3-pole) |
|------------|------------------------------------|--------------------|
| b | without add-on blocks | 85 |
| b1 | with LAD 4BB | 98 |
| | with LA4 D•2 | 114 ⁽¹⁾ |
| | with LA4 DF, DT | 123 ⁽¹⁾ |
| | with LA4 DW, DL | 130 ⁽¹⁾ |
| c | without cover or add-on blocks | 90 |
| | with cover, without add-on blocks | 92 |
| c1 | with LAD N or C (2 or 4 contacts) | 123 |
| c2 | with LA6 DK10, LAD 6K10 | 135 |
| c3 | with LAD T, R, S | 143 |
| | with LAD T, R, S and sealing cover | 147 |
| (1) | Including LAD 4BB. | |

Wiring



Recommended replacement(s)