

LC1D326BLS207

IEC contactor, TeSys D, nonreversing, 32A, 20HP at 480VAC, 3 phase, 3 pole, 3 NO, low consumption 24VDC coil, open style



Main

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

Complementary

| | |
|---|--|
| Motor power kW | 7.5 kW at 220/230 V AC 50 Hz (AC-3) 15 kW at 380/400 V AC 50 Hz (AC-3) 15 kW at 415 V AC 50 Hz (AC-3) 15 kW at 440 V AC 50 Hz (AC-3) 18.5 kW at 500 V AC 50 Hz (AC-3) 18.5 kW at 660/690 V AC 50 Hz (AC-3) 7.5 kW at 220/230 V AC 50 Hz (AC-3e) 15 kW at 380/400 V AC 50 Hz (AC-3e) 15 kW at 415 V AC 50 Hz (AC-3e) 15 kW at 440 V AC 50 Hz (AC-3e) 18.5 kW at 500 V AC 50 Hz (AC-3e) 18.5 kW at 660/690 V AC 50 Hz (AC-3e) |
| Pole contact composition | 3 NO |
| Protective cover | With |
| Auxiliary contacts type | Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Ui] rated insulation voltage | Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 |
| [Uimp] rated impulse withstand voltage | 6 kV IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for signalling circuit 50 A (at 140 °F (60 °C)) for power circuit |
| Irms rated making capacity | 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 550 A at 440 V for power circuit conforming to IEC 60947 |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit |
| Time constant | 37 ms |

| | |
|--------------------------------|--|
| Control circuit type | DC low consumption |
| Coil technology | With integral suppression device |
| Control circuit voltage limits | 0.1...0.25 U _c -40...158 °F (-40...70 °C) drop-out DC 0.7...1.25 U _c -40...158 °F (-40...70 °C) operational DC |
| Average impedance | 2 mOhm - I _{th} 50 A 50 Hz for power circuit |
| Power dissipation per pole | 2 W AC-3 5 W AC-1 2 W AC-3e |
| Minimum switching current | 5 mA for signalling circuit |
| Minimum switching voltage | 17 V for 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 |
| Operating time | 77 ±15 % ms closing 25 ±20 % ms opening |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Inrush power in W | 4 W 68 °F (20 °C)) |
| Hold-in power consumption in W | 4 W 68 °F (20 °C) |
| Insulation resistance | > 10 MOhm for signalling circuit |
| Connections - terminals | Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.47 in (12 mm) |
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals Philips No 2 M4 Power circuit 22.13 lbf.in (2.5 N.m) lugs-ring terminals flat Ø 6 mm M4 |
| Mounting Support | Rail Plate |
| 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 |
| Mechanical durability | 30 Mcycles |
| 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 |
| Operating altitude | 0...9842.52 ft (0...3000 m) |
| Compatibility code | LC1D |
| Standards | EN/IEC 60947-4-1 EN/IEC 60947-5-1 EN 45545: R22 HL3 EN 45545: R26 HL3 DIN 5510-2 |
| Product Certifications | IEC[RETURN]CCC[RETURN]EAC[RETURN]UA[RETURN]TR[RETURN]UKCA[RETURN]CB |

Environment

| | |
|-------------------------------------|---|
| Climatic withstand | IACS E10 IEC 60947-1 Annex Q category D |
| Ambient Air Temperature for Storage | -76...176 °F (-60...80 °C) |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Height | 3.35 in (85 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 3.98 in (101 mm) |
| Net Weight | 0.83 lb(US) (0.375 kg) |
| 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) |

Ordering and shipping details

| | |
|-------------------|---------------|
| Category | US10I1222354 |
| Discount Schedule | 0I12 |
| GTIN | 3389118234604 |
| Returnability | No |
| Country of origin | FR |

Packing Units

| | |
|------------------------------|-------------------------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.13 in (5.4 cm) |
| Package 1 Width | 3.54 in (9.0 cm) |
| Package 1 Length | 4.29 in (10.9 cm) |
| Package 1 Weight | 19.61 oz (556.0 g) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 15 |
| 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 | 19.39 lb(US) (8.795 kg) |

Offer Sustainability

| | |
|----------------------------|---|
| 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 with Exemptions |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | No need of specific recycling operations Circularity Profile |
| 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

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|