Product data sheet

Specifications





TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 48 V AC coil

LC1D096E7

! Discontinued on: Jul 12, 2021

! Discontinued

Product availability: Non-Stock - Not normally stocked in distribution facility

Main

| Range | TeSys |
|--------------------------------|---|
| Range Of Product | TeSys Deca |
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-3 AC-4 AC-1 |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC |
| [le] Rated Operational Current | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage | 48 V AC 50/60 Hz |

Complementary

| Motor Power Kw | 2.2 kW at 220230 V AC 50/60 Hz (AC-3) 4 kW at 380400 V AC 50/60 Hz (AC-3) 4 kW at 415440 V AC 50/60 Hz (AC-3) 5.5 kW at 500 V AC 50/60 Hz (AC-3) 5.5 kW at 660690 V AC 50/60 Hz (AC-3) 2.2 kW at 400 V AC 50/60 Hz (AC-4) |
|--|--|
| Maximum Horse Power Rating | 1 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 200/208 V AC 50/60 Hz for 3 phase motors 2 hp at 230/240 V AC 50/60 Hz for 3 phase motors 5 hp at 460/480 V AC 50/60 Hz for 3 phase motors 7.5 hp at 575/600 V AC 50/60 Hz for 3 phase motors 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors |
| Compatibility Code | LC1D |
| Pole Contact Composition | 3 NO |
| Contact Compatibility | M2 |
| Protective Cover | With |
| [Ith] Conventional Free Air Thermal Current | 25 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit |
| Irms Rated Making Capacity | 250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 |

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

| Rated Breaking Capacity | 250 A at 440 V for power circuit conforming to IEC 60947 |
|---|--|
| [Icw] Rated Short-Time Withstand Current | 105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit |
| Associated Fuse Rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 2.5 mOhm - Ith 25 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 1.56 W AC-1 0.2 W AC-3 |
| [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 | 0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V |
| Control Circuit Type | AC 50/60 Hz |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz |
| | 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz |
| Inrush Power In Va | 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| Inrush Power In Va Hold-In Power Consumption In Va | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening 3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening 3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) 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 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5 |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals Tightening Torque | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening 3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) 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 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening 3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) 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 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 1 NO + 1 NC |
| Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition Auxiliary Contacts Type | 70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C)) 7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 23 W at 50/60 Hz 1222 ms closing 419 ms opening 3600 cyc/h 140 °F (60 °C) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) 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 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 1 NO + 1 NC Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1 |

| Insulation Resistance | > 10 MOhm 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 | |
| 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 |
| Product Certifications | CSA |
| | BV |
| | RINA |
| | GOST |
| | CCC |
| | UL |
| | |
| | LROS (Lloyds register of shipping) |
| | GL |
| | DNV |
| 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 | -40140 °F (-4060 °C) |
| Temperature Around The Device | 140158 °F (6070 °C) with derating |
| Operating Altitude | 09842.52 ft (03000 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, 5300 Hz) |
| | Vibrations contactor closed 4 Gn, 5300 Hz) |
| | Shocks contactor open 10 Gn for 11 ms) |
| | Shocks contactor closed 15 Gn for 11 ms) |
| Height | 3.03 in (77 mm) |
| Width | 1.77 in (45 mm) |
| Depth | 3.39 in (86 mm) |
| Net Weight | 0.71 lb(US) (0.32 kg) |
| | |

Ordering and shipping details

| Category | US10I1222354 |
|-------------------|----------------|
| Discount Schedule | 0112 |
| Gtin | 03389110802474 |
| Returnability | No |
| Country Of Origin | ID |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-----|
| Number Of Units In Package 1 | 1 |

Contractual warranty

Warranty

18 months



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RoHS/REACh

Well-being performance

| ⊘ | Reach Free Of Svhc |
|----------|--------------------------------|
| ⊘ | Toxic Heavy Metal Free |
| ⊘ | Mercury Free |
| ② | Rohs Exemption Information Yes |
| ② | Pvc Free |

Certifications & Standards

| Eu Rohs Directive | Compliant |
|---------------------------|---|
| | EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| 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 |