Product data sheet

Specification





IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 120VAC 50/60Hz coil, open

LC1D18G7

Product availability: Stock - Normally stocked in distribution facility

Price*: 163.20 USD

Main

| Range Of Product | TeSys Deca |
|--------------------------------|--|
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-1 AC-4 AC-3 AC-3e |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC |
| [le] Rated Operational Current | 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| [Uc] Control Circuit Voltage | 120 V AC 50/60 Hz |

Complementary

| Motor Power Kw | 4 kW at 220230 V AC 50/60 Hz (AC-3) | |
|----------------------------|---|--|
| | 7.5 kW at 380400 V AC 50/60 Hz (AC-3) | |
| | 9 kW at 415440 V AC 50/60 Hz (AC-3) | |
| | 10 kW at 500 V AC 50/60 Hz (AC-3) | |
| | 10 kW at 660690 V AC 50/60 Hz (AC-3) | |
| | 4 kW at 400 V AC 50/60 Hz (AC-4) | |
| | 4 kW at 220230 V AC 50/60 Hz (AC-3e) | |
| | 7.5 kW at 380400 V AC 50/60 Hz (AC-3e) | |
| | 9 kW at 415440 V AC 50/60 Hz (AC-3e) | |
| | 10 kW at 500 V AC 50/60 Hz (AC-3e) | |
| | 10 kW at 660690 V AC 50/60 Hz (AC-3e) | |
| Maximum Horse Power Rating | 1 hp at 115 V AC 50/60 Hz for 1 phase motors | |
| | 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors | |
| | 5 hp at 200/208 V AC 50/60 Hz for 3 phase motors | |
| | 5 hp at 230/240 V AC 50/60 Hz for 3 phase motors | |
| | 10 hp at 460/480 V AC 50/60 Hz for 3 phase motors | |
| | 15 hp at 575/600 V AC 50/60 Hz for 3 phase motors | |
| Compatibility Code | LC1D | |
| Pole Contact Composition | 3 NO | |
| Protective Cover | With | |
| | | |

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

| [Ith] Conventional Free Air Thermal Current | 10 A (at 140 °F (60 °C)) for signalling circuit 32 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947 |
| Rated Breaking Capacity | 300 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand Current | 145 A 104 °F (40 °C) - 10 s for power circuit 240 A 104 °F (40 °C) - 1 s for power circuit 40 A 104 °F (40 °C) - 10 min for power circuit 84 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 2.5 mOhm - Ith 32 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 2.5 W AC-1 0.8 W AC-3 0.8 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 18 A AC-3 <= 440 V 1 Mcycles 32 A AC-1 <= 440 V 1.65 Mcycles 18 A AC-3e <= 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 | 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)) |
| Hold-In Power Consumption In Va | 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)) |
| Heat Dissipation | 23 W at 50/60 Hz |
| Operating Time | 1222 ms closing 419 ms opening |
| Maximum Operating Rate | 3600 cyc/h 140 °F (60 °C) |

| Connections - Terminals | Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end |
|-------------------------------|---|
| | Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: |
| | flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: |
| | flexible with cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: |
| | flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: |
| | solid without cable end |
| | Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end |
| | Power circuit: screw clamp terminals 1 0.000.01 in² (1.56 mm²) - cable stiffness: flexible without cable end |
| | Power circuit: screw clamp terminals 2 0.000.01 in² (1.56 mm²) - cable stiffness: |
| | flexible without cable end Power circuit: screw clamp terminals 1 0.000.01 in² (16 mm²) - cable stiffness: |
| | flexible with cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: |
| | flexible with cable end Power circuit: screw clamp terminals 1 0.000.01 in² (1.56 mm²) - cable stiffness: |
| | solid without cable end |
| | Power circuit: screw clamp terminals 2 0.000.01 in² (1.56 mm²) - cable stiffness: solid without cable end |
| Tightening Torque | Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm |
| | Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 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 |
| | Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 |
| 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 | 25400 Hz |
| Minimum Switching Voltage | 17 V for signalling circuit |
| Minimum Switching Current | 5 mA for signalling circuit |
| Insulation Resistance | > 10 MOhm for signalling circuit |
| Non-Overlap Time | 1.5 ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact |
| Mounting Support | Plate |
| | Rail |
| Environment | |
| 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 | GL |
| | BV DNV |
| | LROS (Lloyds register of shipping) |
| | RINA |
| | UL CCC |
| | CSA |
| | GOST UKCA |
| | CB |
| 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 | -40140 °F (-4060 °C) 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 | 0.73 lb(US) (0.33 kg) |

Ordering and shipping details

| Category | US10l1222354 |
|-------------------|---------------|
| Discount Schedule | 0112 |
| Gtin | 3389110349474 |
| Returnability | Yes |
| Country Of Origin | ID |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|-------------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 2.17 in (5.500 cm) |
| Package 1 Width | 3.74 in (9.500 cm) |
| Package 1 Length | 4.72 in (12.000 cm) |
| Package 1 Weight | 12.84 oz (364.000 g) |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 16 |
| Package 2 Height | 5.91 in (15.000 cm) |
| Package 2 Width | 11.81 in (30.000 cm) |
| Package 2 Length | 15.75 in (40.000 cm) |
| Package 2 Weight | 14.00 lb(US) (6.350 kg) |

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

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

Certifications & Standards

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