Product data sheet

Specifications





TeSys Deca reversing contactor -3P(3 NO) - AC-3 - <= 440 V 50 A coil 120 V AC 60 Hz

LC2D50AG7

Product availability: Stock - Normally stocked in distribution facility

Price*: 752.40 USD

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| Range | TeSys TeSys Deca |
| Product Name | TeSys D TeSys Deca |
| Product Or Component Type | Reversing contactor |
| Device Short Name | LC2D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-1 AC-3 AC-3e |
| Device Presentation | Preassembled with reversing power busbar |
| Poles Description | 3P |
| Power Pole Contact Composition | 3 NO |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC |
| [le] Rated Operational Current | 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| Motor Power Kw | 15 kW at 220230 V AC 50-60 Hz 22 kW at 380400 V AC 50-60 Hz 30 kW at 500 V AC 50-60 Hz 33 kW at 660690 V AC 50-60 Hz 25 kW at 415 V AC 50-60 Hz 30 kW at 440 V AC 50-60 Hz |
| Motor Power Hp (UI / Csa) | 3 hp at 115 V AC 60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors 15 hp at 200/208 V AC 60 Hz for 3 phase motors 15 hp at 230/240 V AC 60 Hz for 3 phase motors 40 hp at 460/480 V AC 60 Hz for 3 phase motors 40 hp at 575/600 V AC 60 Hz for 3 phase motors |
| Control Circuit Type | AC 60 Hz |
| [Uc] Control Circuit Voltage | 120 V AC 60 Hz |
| Auxiliary Contact Composition | 1 NO + 1 NC |
| [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 80 A (at 140 °F (60 °C)) for power circuit |

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

| 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 |
| | 900 A at 440 V for power circuit conforming to IEC 60947 |
| | |
| Rated Breaking Capacity | 900 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] Rated Short-Time Withstand | 400 A 104 °F (40 °C) - 10 s for power circuit |
| Current | 810 A 104 °F (40 °C) - 1 s for power circuit |
| | 84 A 104 °F (40 °C) - 10 min for power circuit |
| | 208 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 |
| | 100 A gG at <= 690 V coordination type 1 for power circuit |
| | 100 A gG at <= 690 V coordination type 2 for power circuit |
| Average Impedance | 1.5 mOhm - Ith 80 A 50 Hz for power circuit |
| [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 |
| Electrical Durability | 1.45 Mcycles 50 A AC-3 <= 440 V |
| | 1.1 Mcycles 80 A AC-1 <= 440 V |
| | 1.45 Mcycles 50 A AC-3e <= 440 V |
| Power Dissipation Per Pole | 3.7 W AC-3 |
| | 9.6 W AC-1 |
| | 3.7 W AC-3e |
| | 5.7 W A0-56 |
| Front Cover | With |
| Interlocking Type | Mechanical |
| Mounting Support | Rail |
| | Plate |
| 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 | UL |
| | CSA |
| | RINA |
| | GOST |
| | CCC |
| | DNV |
| | LROS (Lloyds register of shipping) |
| | GL |
| | BV |
| | |
| | UKCA |
| | |

| Connections - Terminals | Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)flexible without cable end |
|--------------------------|--|
| | Control circuit screw clamp terminals 2 0.000.01 in ² (14 mm ²)flexible without cable end |
| | Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)flexible with cable end |
| | Control circuit screw clamp terminals 2 0.000.00 in ² (12.5 mm ²)flexible with cable end |
| | Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)solid |
| | Control circuit screw clamp terminals 2 0.000.01 in ² (14 mm ²)solid |
| | Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)flexible without cable end |
| | Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible without cable end |
| | Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)flexible with cable end |
| | Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible with cable end |
| | Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)solid Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)solid |
| 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 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (2535 mm ²) hexagonal 0.16 in (4 mm) |
| | Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in ² (1 25 mm ²) hexagonal 0.16 in (4 mm) |
| | 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 |
| Operating Time | 419 ms opening 1226 ms closing |
| 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 | 6 Mcycles |
| Maximum Operating Rate | 3600 cyc/h 140 °F (60 °C) |
| | |

Complementary

| Coil Technology | Without built-in suppressor module |
|---------------------------------|--|
| Control Circuit Voltage Limits | 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 60 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 60 Hz |
| Inrush Power In Va | 140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-In Power Consumption In Va | 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat Dissipation | 45 W 60 Hz |
| 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 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 |
| Insulation Resistance | > 10 MOhm for signalling circuit |

Environment

| Ip Degree Of Protection | IP20 front face IEC 60529 |
|-------------------------|--|
| Climatic Withstand | IACS E10 IEC 60947-1 Annex Q category D |
| Protective Treatment | TH IEC 60068-2-30 |

| Pollution Degree | 3 |
|--|--|
| Ambient Air Temperature For Operation | -40140 °F (-4060 °C) 140158 °F (6070 °C) with derating |
| Ambient Air Temperature For Storage | -76176 °F (-6080 °C) |
| 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 open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms |
| Height | 4.80 in (122 mm) |
| Width | 4.69 in (119 mm) |
| Depth | 4.72 in (120 mm) |
| Net Weight | 4.14 lb(US) (1.88 kg) |

Ordering and shipping details

| Category | US10I1222357 |
|-------------------|---------------|
| Discount Schedule | 0 12 |
| Gtin | 3389119409582 |
| Returnability | Yes |
| Country Of Origin | US |

Packing Units

| V | |
|------------------------------|-------------------------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.51 in (14.0 cm) |
| Package 1 Width | 6.38 in (16.2 cm) |
| Package 1 Length | 7.80 in (19.8 cm) |
| Package 1 Weight | 4.61 lb(US) (2.093 kg) |
| Unit Type Of Package 2 | \$03 |
| Number Of Units In Package 2 | 4 |
| Package 2 Height | 11.81 in (30.0 cm) |
| Package 2 Width | 11.81 in (30.0 cm) |
| Package 2 Length | 15.75 in (40.0 cm) |
| Package 2 Weight | 19.30 lb(US) (8.754 kg) |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
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 |