# Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 208VAC 50/60Hz coil, open style

LC1D09LE7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 112.80 USD

| M | ai | n   |
|---|----|-----|
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| Range Of Product               | TeSys Deca   |
|--------------------------------|--|
| Product Or Component Type      | Contactor  |
| Device Short Name              | LC1D   |
| Contactor Application          | Motor control<br>Resistive load  |
| Utilisation Category           | AC-3<br>AC-4<br>AC-1<br>AC-3e  |
| Poles Description              | 3P   |
| [Ue] Rated Operational Voltage | Power circuit <= 690 V AC 25400 Hz<br>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<br>25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit<br>9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| [Uc] Control Circuit Voltage   | 208 V AC 50/60 Hz  |
| Complementary                  |  |
| Motor Power Kw                 |  |

| Motor Power Kw             | 2.2 kW at 220230 V AC 50/60 Hz (AC-3)<br>4 kW at 380400 V AC 50/60 Hz (AC-3)<br>4 kW at 415440 V AC 50/60 Hz (AC-3)<br>5.5 kW at 500 V AC 50/60 Hz (AC-3)<br>5.5 kW at 660690 V AC 50/60 Hz (AC-3)<br>2.2 kW at 400 V AC 50/60 Hz (AC-4)<br>2.2 kW at 220230 V AC 50/60 Hz (AC-3e)<br>4 kW at 380400 V AC 50/60 Hz (AC-3e)<br>4 kW at 415440 V AC 50/60 Hz (AC-3e)<br>5.5 kW at 500 V AC 50/60 Hz (AC-3e) |
|----------------------------|---|
| Maximum Horse Power Rating | 5.5 kW at 660690 V AC 50/60 Hz (AC-3e)<br>1 hp at 230/240 V AC 50/60 Hz for 1 phase motors<br>2 hp at 200/208 V AC 50/60 Hz for 3 phase motors<br>2 hp at 230/240 V AC 50/60 Hz for 3 phase motors<br>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<br>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  |

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<br>Thermal Current | 25 A (at 140 °F (60 °C)) for power circuit<br>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<br>140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1   |
| Rated Breaking Capacity                        | 250 A at 440 V for power circuit conforming to IEC 60947   |
| [Icw] Rated Short-Time Withstand<br>Current    | 105 A 104 °F (40 °C) - 10 s for power circuit<br>210 A 104 °F (40 °C) - 1 s for power circuit<br>30 A 104 °F (40 °C) - 10 min for power circuit<br>61 A 104 °F (40 °C) - 1 min for power circuit<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit |
| Associated Fuse Rating                         | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>25 A gG at <= 690 V coordination type 1 for power circuit<br>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<br>0.2 W AC-3<br>0.2 W AC-3e   |
| [Ui] Rated Insulation Voltage                  | Power circuit 690 V IEC 60947-4-1<br>Power circuit 600 V CSA<br>Power circuit 600 V UL<br>Signalling circuit 690 V IEC 60947-1<br>Signalling circuit 600 V CSA<br>Signalling circuit 600 V UL  |
| Overvoltage Category                           | III  |
| Pollution Degree                               | 3  |
| [Uimp] Rated Impulse Withstand<br>Voltage      | 6 kV IEC 60947   |
| Safety Reliability Level                       | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>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<br>2 Mcycles 9 A AC-3 <= 440 V<br>2 Mcycles 9 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<br>0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz<br>0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz<br>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))<br>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))<br>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<br>419 ms opening  |
| Maximum Operating Rate                         | 3600 cyc/h 140 °F (60 °C)  |

| Power circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                              |
|---|
| flexible without cable end  |
| Power circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                              |
| flexible without cable end  |
| Power circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                              |
| flexible with cable end   |
| Power circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:                            |
| flexible with cable end<br>Power circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:   |
| solid without cable end   |
| Power circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                              |
| solid without cable end   |
| Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                            |
| flexible without cable end  |
| Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible without cable end |
| Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: flexible with cable end    |
| Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> $(12.5 \text{ mm}^2)$ - cable stiffness: flexible with cable end    |
| Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                            |
| solid without cable end   |
| Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:                            |
| solid without cable end   |
| 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  |
| 1 NO + 1 NC   |
| Mechanically linked 1 NO + 1 NC IEC 60947-5-1   |
| Mirror contact 1 NC IEC 60947-4-1   |
| 25400 Hz  |
| 17 V for signalling circuit   |
|   |
| 5 mA for signalling circuit   |
| > 10 MOhm for signalling circuit  |
| 1.5 ms on de-energisation between NC and NO contact   |
| 1.5 ms on energisation between NC and NO contact  |
| Ploto   |
| Plate   |
| Rail  |
|   |

#### Environment

| Standards               | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>IEC 60335-1 |
|-------------------------|--|
| Product Certifications  | CSA<br>GOST<br>BV<br>DNV<br>LROS (Lloyds register of shipping)<br>GL<br>CCC<br>RINA<br>UL<br>UL            |
| Ip Degree Of Protection | IP20 front face IEC 60529  |
| Protective Treatment    | THIEC 60068-2-30   |
| Climatic Withstand      | IACS E10 exposure to damp heat<br>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 | 0 12          |
| Gtin              | 3389110284201 |
| Returnability     | Yes           |
| Country Of Origin | FR            |

### **Packing Units**

| PCE                       |
|---------------------------|
| 1                         |
| 4.41 in (11.2 cm)         |
| 3.54 in (9.0 cm)          |
| 1.93 in (4.9 cm)          |
| 12.52 oz (355.0 g)        |
| S02                       |
| 20                        |
| 5.91 in (15.0 cm)         |
| 11.81 in (30.0 cm)        |
| 15.75 in (40.0 cm)        |
| 16.66 lb(US) (7.555 kg)   |
| P06                       |
| 320                       |
| 30.31 in (77.0 cm)        |
| 31.50 in (80.0 cm)        |
| 23.62 in (60.0 cm)        |
| 285.23 lb(US) (129.38 kg) |
|                           |

## **Contractual warranty**

Warranty

18 months

### Sustainability Screen

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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<br>EU RoHS Declaration  |
| China Rohs Regulation     | China RoHS declaration<br>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 |