

# Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, 3 phase, 3 pole, 3 NO, low consumption 24VDC coil, open style

LC1D096BL

Product availability: Stock - Normally stocked in distribution facility

## Main

|                                |                                                                                                                                                                                                      |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of Product               | TeSys Deca                                                                                                                                                                                           |
| Product or Component Type      | Contactors                                                                                                                                                                                           |
| Device short name              | LC1D                                                                                                                                                                                                 |
| Contactors application         | Resistive load<br>Motor control                                                                                                                                                                      |
| Utilisation category           | AC-1<br>AC-3<br>AC-4<br>AC-3e                                                                                                                                                                        |
| Poles description              | 3P                                                                                                                                                                                                   |
| [Ue] rated operational voltage | Power circuit <= 690 V AC 25...400 Hz<br>Power circuit <= 300 V DC                                                                                                                                   |
| [Ie] 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   | 24 V DC                                                                                                                                                                                              |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor power kW                              | 2.2 kW at 220...230 V AC 50/60 Hz (AC-3)<br>4 kW at 380...400 V AC 50/60 Hz (AC-3)<br>4 kW at 415 V AC 50/60 Hz (AC-3)<br>4 kW at 440 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 660...690 V AC 50/60 Hz (AC-3)<br>2.2 kW at 220...230 V AC 50/60 Hz (AC-3e)<br>4 kW at 380...400 V AC 50/60 Hz (AC-3e)<br>4 kW at 415 V AC 50/60 Hz (AC-3e)<br>4 kW at 440 V AC 50/60 Hz (AC-3e)<br>5.5 kW at 500 V AC 50/60 Hz (AC-3e)<br>5.5 kW at 660...690 V AC 50/60 Hz (AC-3e)<br>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<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<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ith] conventional free air thermal current | 25 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 140 °F (60 °C)) for signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Irms rated making capacity</b>               | 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                                                                                                                                                                                                                                                                                                 |
| <b>Rated breaking capacity</b>                  | 250 A at 440 V for power circuit conforming to IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>[Icw] rated short-time withstand current</b> | 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                                                                                                                                                               |
| <b>Associated fuse rating</b>                   | 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                                                                                                                                                                                                                                                                                                   |
| <b>Average impedance</b>                        | 2.5 mOhm - Ith 25 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Power dissipation per pole</b>               | 1.56 W AC-1<br>0.2 W AC-3<br>0.2 W AC-3e                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>[UI] rated insulation voltage</b>            | 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                                                                                                                                                                                                                                                                                          |
| <b>Overvoltage category</b>                     | III                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Pollution degree</b>                         | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>[Uimp] rated impulse withstand voltage</b>   | 6 kV IEC 60947                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Safety reliability level</b>                 | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1                                                                                                                                                                                                                                                                                                                                               |
| <b>Mechanical durability</b>                    | 30 Mcycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Electrical durability</b>                    | 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                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Control circuit type</b>                     | DC low consumption                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Coil technology</b>                          | Built-in bidirectional peak limiting diode suppressor                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Control circuit voltage limits</b>           | 0.1...0.3 Uc (-40...158 °F (-40...70 °C)):drop-out DC<br>0.8...1.25 Uc (-40...140 °F (-40...60 °C)):operational DC<br>1...1.25 Uc (140...158 °F (60...70 °C)):operational DC                                                                                                                                                                                                                                                                                                           |
| <b>Inrush power in W</b>                        | 2.4 W 68 °F (20 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Hold-in power consumption in W</b>           | 2.4 W 68 °F (20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Operating time</b>                           | 77 ±15 % ms closing<br>25 ±20 % ms opening                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Time constant</b>                            | 40 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Maximum operating rate</b>                   | 3600 cyc/h at 60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Connections - terminals</b>                  | Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)<br>Power circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm)                                                                                                                                                                                                                                                                                                                                       |
| <b>Tightening torque</b>                        | Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5<br>Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 8 mm M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5<br>Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5<br>Power circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5 |
| <b>Auxiliary contact composition</b>            | 1 NO + 1 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Auxiliary contacts type</b>                  | Mechanically linked 1 NO + 1 NC IEC 60947-5-1<br>Mirror contact 1 NC IEC 60947-4-1                                                                                                                                                                                                                                                                                                                                                                                                     |

|                              |                                                                                                         |
|------------------------------|---------------------------------------------------------------------------------------------------------|
| Signalling circuit frequency | 25...400 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 contact<br>1.5 ms on energisation between NC and NO contact |
| Mounting Support             | Rail<br>Plate                                                                                           |

## 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 60947-4-1<br>IEC 60335-1:Clause 30.2<br>IEC 60335-2-40:Annex JJ<br>UL 60335-2-40:Annex JJ<br>CSA C22.2 No 60947-4-1 |
| Product Certifications                                | UL<br>CCC<br>CSA<br>Marine<br>UKCA<br>EAC<br>CB Scheme                                                                                                                                                      |
| 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 temperature around the device | -40...140 °F (-40...60 °C)<br>140...158 °F (60...70 °C) with derating                                                                                                                                       |
| Operating altitude                                    | 0...9842.52 ft (0...3000 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, 5...300 Hz)<br>Vibrations contactor closed 4 Gn, 5...300 Hz)<br>Shocks contactor open 10 Gn for 11 ms)<br>Shocks contactor closed 15 Gn for 11 ms)                          |
| Height                                                | 3.03 in (77 mm)                                                                                                                                                                                             |
| Width                                                 | 1.8 in (45 mm)                                                                                                                                                                                              |
| Depth                                                 | 3.7 in (95 mm)                                                                                                                                                                                              |
| Product Weight                                        | 1.06 lb(US) (0.48 kg)                                                                                                                                                                                       |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10I1222354  |
| Discount Schedule | 0I12          |
| GTIN              | 3389110808551 |
| Returnability     | Yes           |
| Country of origin | ID            |

# Packing Units

|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Nbr. of units in pkg.        | 1                        |
| Package 1 Height             | 2.244 in (5.700 cm)      |
| Package 1 Width              | 3.740 in (9.500 cm)      |
| Package 1 Length             | 4.724 in (12.000 cm)     |
| Package weight(Lbs)          | 19.083 oz (541.000 g)    |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 16                       |
| Package 2 Height             | 5.906 in (15.000 cm)     |
| Package 2 Width              | 11.811 in (30.000 cm)    |
| Package 2 Length             | 15.748 in (40.000 cm)    |
| Package 2 Weight             | 20.066 lb(US) (9.102 kg) |

# Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

|                                                        |                                               |
|--------------------------------------------------------|-----------------------------------------------|
| Total lifecycle Carbon footprint                       | 19 kg CO2 eq.                                 |
| Carbon footprint of the manufacturing phase [A1 to A3] | 3 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0.1 kg CO2 eq.                                |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 15 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 1 kg CO2 eq.                                  |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |

## Use Better



### Materials and Substances

|                                        |                                                                                                                                                                                                                                                           |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                       |
| Packaging without single use plastic   | Yes                                                                                                                                                                                                                                                       |
| SCIP Number                            | 50ae7612-fd2e-41e4-a369-50d0dea6e592                                                                                                                                                                                                                      |
| EU RoHS Directive                      | <a href="#">Compliant By Exemption</a>                                                                                                                                                                                                                    |
| REACH Regulation                       | <a href="#">Reference contains Substances of Very High Concern above the threshold</a>                                                                                                                                                                    |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| PVC free                               | Yes                                                                                                                                                                                                                                                       |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



### Repack and remanufacture

|                               |                                                                                                                                                                                                                  |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recyclability potential, in % | 75                                                                                                                                                                                                               |
| Circularity Profile           | <a href="#">End of Life Information</a>                                                                                                                                                                          |
| Take-back                     | No                                                                                                                                                                                                               |
| WEEE Label                    |  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

### TeSys Deca Contactors



**Reliable**

Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.



**Energy efficiency**

These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.



**Universal**

Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine), Green Premium compliant (RoHS/REACH).



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Schneider  
Electric

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Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca contactor, model LC1D09, in a dark grey or black plastic housing. It features a green label with the 'TeSys' and 'Schneider Electric' logos. The contactor has multiple terminals on top and bottom, labeled with numbers and letters (e.g., 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100). The contactor is shown against a green circular background.

### TeSys Deca Contactors

#### Technical Benefits

- Deca green delivers a consistent low consumption range of contactors from 9 A to 80 A.
- Covers control voltage from 24 to 250 V, with same coils for AC and DC.
- Designed to meet the requirements of industrial and HVAC applications
- With IEC60335-1 compliance, improved fire resistance, and dust-proof auxiliaries
- Suitable for safety applications thanks to mechanically linked contacts and mirror contacts
- Outstanding breaking/making capacity up to 20 In with PLC direct connection

Image of product / Alternate images

### Alternative



