

# Product data sheet

Specifications



IEC contactor, TeSys D, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D65BD

Product availability: Stock - Normally stocked in distribution facility

Price\*: 521.00 USD

## Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
contactor application	Motor control
Utilisation category	AC-3 AC-2 AC-1 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	24 V DC

## Complementary

Motor power kW	30 kW at 380...400 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660...690 V AC 50 Hz 18.5 kW at 220...230 V AC 50 Hz 30 kW at 415 V AC 50 Hz 37 kW at 1000 V AC 50 Hz (AC-3) 11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 440 V AC 50 Hz (AC-3)
Maximum Horse Power Rating	10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phase motors 20 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 50 hp at 575/600 V AC 60 Hz for 3 phase motors 5 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for control circuit

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

<b>Irms rated making capacity</b>	1000 A at 440 V DC for power circuit conforming to IEC 60947 1000 A at 440 V for power circuit conforming to IEC 60947 250 A DC for control circuit conforming to IEC 60947-5-1
<b>Rated breaking capacity</b>	1000 A at 440 V for power circuit conforming to IEC 60947
<b>Associated fuse rating</b>	125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1
<b>Power dissipation per pole</b>	6.4 W AC-1 4.2 W AC-3e 4.2 W AC-3
<b>[Ui] rated insulation voltage</b>	Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL IEC 60947-1 Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1 Power circuit 1000 V CSA IEC 60947-4-1 Control circuit 600 V CSA
<b>Overvoltage category</b>	III
<b>[Uimp] rated impulse withstand voltage</b>	8 kV IEC 60947
<b>Safety reliability level</b>	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
<b>Mechanical durability</b>	10000000 cycles
<b>Control circuit type</b>	DC wide range
<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.75...1.25 Uc -40...140 °F (-40...60 °C) operational DC 1...1.25 Uc 140...158 °F (60...70 °C) operational DC 0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC
<b>Inrush power in W</b>	19 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	22 W 68 °F (20 °C)
<b>Rated operational power in W</b>	48 W 24 V DC-13 3000000 cycles - control circuit 96 W 24 V DC-13 1000000 cycles - control circuit 14 W 24 V DC-13 10000000 cycles - control circuit
<b>Operating time</b>	50 ±15 % ms closing 20 ±20 % ms opening
<b>Time constant</b>	34 ms
<b>Maximum operating rate</b>	3600 cyc/h 140 °F (60 °C)
<b>Maximum operating rate</b>	3600 cyc/h at 60 °C

<b>Connections - terminals</b>	Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: rigid without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: screw terminals 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: rigid Power circuit: screw terminals 2 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) - cable stiffness: rigid without cable end Power circuit: screw terminals 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.004...0.02 in <sup>2</sup> (2.5...16 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: screw terminals 1 0.004...0.04 in <sup>2</sup> (2.5...25 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.004...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: rigid Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: rigid
<b>Tightening torque</b>	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2 Power circuit 44.3 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Auxiliary contacts type</b>	Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1
<b>Minimum switching voltage</b>	17 V for control circuit
<b>Minimum switching current</b>	5 mA for control circuit
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Non-overlap time</b>	1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
<b>Mounting Support</b>	Plate Rail

## Environment

<b>Standards</b>	IEC 60947-5-1 IEC 60947-4-1 EN 60947-4-1 UL 508 EN 60947-5-1
<b>Product Certifications</b>	GOST LROS (Lloyds register of shipping) DNV CCC CSA GL UL RINA UKCA
<b>IP degree of protection</b>	IP2X VDE 0106 IP2X IEC 60529
<b>Climatic withstand</b>	IACS E10 exposure to damp heat
<b>Operating altitude</b>	0...9842.52 ft (0...3000 m)
<b>Fire resistance</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Flame retardance</b>	V1 conforming to UL 94

<b>Mechanical robustness</b>	Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor opened 10 Gn for 11 ms)
<b>Height</b>	5.0000000000 in (127 mm)
<b>Width</b>	3.3 in (85 mm)
<b>Depth</b>	6.9 in (176 mm)
<b>Net Weight</b>	4.817 lb(US) (2.185 kg)

## Ordering and shipping details

<b>Category</b>	US101222358
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110436143
<b>Returnability</b>	Yes
<b>Country of origin</b>	US

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.3 in (11.0 cm)
<b>Package 1 Width</b>	8.5 in (21.6 cm)
<b>Package 1 Length</b>	6.3 in (16.0 cm)
<b>Package 1 Weight</b>	5.00009 lb(US) (2.268 kg)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	5.9 in (15 cm)
<b>Package 2 Width</b>	11.8 in (30 cm)
<b>Package 2 Length</b>	15.7 in (40 cm)
<b>Package 2 Weight</b>	10.635 lb(US) (4.824 kg)

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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  
[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** No need of specific recycling operations

**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](http://www.P65Warnings.ca.gov)

Offer Marketing Illustration

Product benefits / Features

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The image shows a TeSys Deca contactor, a black industrial component with a green top section. It features a control terminal block with terminals labeled 13, 14, 22, and 23. The top section has terminals labeled 1, 2, 3, 4, 5, and 6. The Schneider logo and 'TeSys Deca' branding are visible on the green section.

### 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

Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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## 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).

