

# Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 95A, 60HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VDC coil, open style

LC1D95BD

Product availability: Stock - Normally stocked in distribution facility

Price\*: 526.00 USD

## Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-3e AC-4 AC-1
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	95 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 125 A (at <140 °F (60 °C)) at <= 690 V AC-1 for power circuit 95 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	24 V DC

## Complementary

Motor power kW	25 kW at 220...230 V AC 50 Hz (AC-3) 45 kW at 380...400 V AC 50 Hz (AC-3) 45 kW at 415...440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660...690 V AC 50 Hz (AC-3) 15 kW at 400 V AC 50 Hz (AC-4) 25 kW at 220...230 V AC 50 Hz (AC-3e) 45 kW at 380...400 V AC 50 Hz (AC-3e) 45 kW at 415...440 V AC 50 Hz (AC-3e) 55 kW at 500 V AC 50 Hz (AC-3e) 45 kW at 660...690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	7.5 hp at 120 V AC 60 Hz for 1 phase motors 15 hp at 230/240 V AC 60 Hz for 1 phase motors 30 hp at 200/208 V AC 60 Hz for 3 phase motors 30 hp at 230/240 V AC 60 Hz for 3 phase motors 60 hp at 460/480 V AC 60 Hz for 3 phase motors 60 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 125 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.

<b>Irms rated making capacity</b>	1100 A at 440 V AC for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
<b>Rated breaking capacity</b>	1100 A at 440 V for power circuit conforming to IEC 60947
<b>[Icw] rated short-time withstand current</b>	1100 A 104 °F (40 °C) - 1 s for power circuit 800 A 104 °F (40 °C) - 10 s for power circuit 400 A 104 °F (40 °C) - 1 min for power circuit 135 A 104 °F (40 °C) - 10 min for power circuit 140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s for signalling circuit
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
<b>Average impedance</b>	0.8 mOhm - Ith 125 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e
<b>[Ui] rated insulation voltage</b>	Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
<b>Overvoltage category</b>	III
<b>Pollution degree</b>	3
<b>[Uimp] rated impulse withstand voltage</b>	8 kV IEC 60947
<b>Safety reliability level</b>	B10d = 1.3 Mcycles contactor with nominal load EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	10 Mcycles
<b>Electrical durability</b>	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e
<b>Control circuit type</b>	DC standard
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	0.1...0.3 Uc -40...158 °F (-40...70 °C) drop-out DC 0.85...1.1 Uc -40...131 °F (-40...55 °C) operational DC 1...1.1 Uc 131...158 °F (55...70 °C) operational DC
<b>Inrush power in W</b>	22 W 68 °F (20 °C))
<b>Hold-in power consumption in W</b>	22 W 68 °F (20 °C)
<b>Operating time</b>	95...130 ms closing 20...35 ms opening
<b>Time constant</b>	75 ms
<b>Maximum operating rate</b>	3600 cyc/h 140 °F (60 °C)

<b>Connections - terminals</b>	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 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 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...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: solid 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: solid without cable end Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: flexible without cable end Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: connector 2 0.006...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> ) - cable stiffness: flexible with cable end Power circuit: connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> ) - cable stiffness: solid without cable end Power circuit: connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> ) - cable stiffness: solid without cable end
<b>Tightening torque</b>	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Auxiliary contacts type</b>	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
<b>Signalling circuit frequency</b>	25...400 Hz
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Non-overlap time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Mounting Support</b>	Rail Plate

## Environment

<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.4
<b>Product Certifications</b>	IECEE CB Scheme CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
<b>IP degree of protection</b>	IP20 front face IEC 60529
<b>Protective treatment</b>	THIEC 60068-2-30
<b>Climatic withstand</b>	IACS E10 exposure to damp heat
<b>Permissible ambient air temperature around the device</b>	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
<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>	Vibrations contactor open 2 Gn, 5...300 Hz) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5...300 Hz) Shocks contactor closed 10 Gn for 11 ms)
<b>Height</b>	5.0000000000 in (127 mm)
<b>Width</b>	3.3 in (85 mm)
<b>Depth</b>	7.3 in (186 mm)
<b>Net Weight</b>	5.75 lb(US) (2.61 kg)

## Ordering and shipping details

<b>Category</b>	US101222359
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110450576
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	4.331 in (11.000 cm)
<b>Package 1 Width</b>	6.417 in (16.300 cm)
<b>Package 1 Length</b>	8.543 in (21.700 cm)
<b>Package 1 Weight</b>	5.657 lb(US) (2.566 kg)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	2
<b>Package 2 Height</b>	5.906 in (15.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	12.004 lb(US) (5.445 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	32
<b>Package 3 Height</b>	29.528 in (75.000 cm)
<b>Package 3 Width</b>	23.622 in (60.000 cm)
<b>Package 3 Length</b>	31.496 in (80.000 cm)
<b>Package 3 Weight</b>	215.815 lb(US) (97.892 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](#)

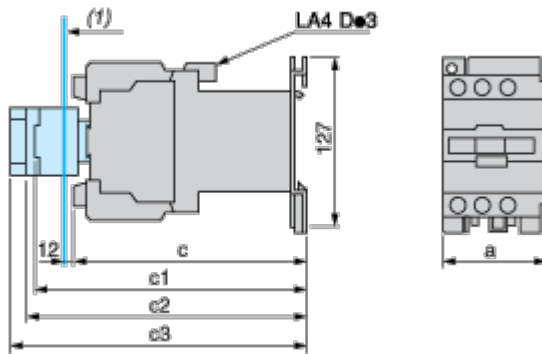
**Weee** The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

**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)

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D80 and D95
<b>a</b>		85
<b>b1</b>	with LAD 4BB3	–
	with LA4 DF, DT	–
<b>c</b>	without cover or add-on blocks	181
	with cover, without add-on blocks	186
<b>c1</b>	with LAD N (1 contact)	204
	with LAD N or C (2 or 4 contacts)	210
<b>c2</b>	with LA6 DK10	221
<b>c3</b>	with LAD T, R, S	229
	with LAD T, R, S and sealing cover	233

Connections and Schema

Wiring

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Offer Marketing Illustration

Product benefits / Features

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## TeSys Deca Contactors



The image shows a stack of three TeSys Deca contactors. The top unit is black with a green label that reads 'TeSys Schneider Electric'. The middle unit is black with a green label that reads 'TeSys Schneider Electric'. The bottom unit is black with a green label that reads 'TeSys Schneider Electric'. The contactors have multiple terminals and a handle on the side.

**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).

Offer Marketing Illustration

Product benefits / Features

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Offer Marketing Illustration

Product benefits / Features

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The image shows a TeSys Deca contactor, a black industrial electrical component. It features a green label with the Schneider Electric logo and 'TeSys Deca' branding. The contactor has several 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