

# Product data sheet

Specifications



## Contact, TeSys Deca, 3P(3NO),AC-3/AC-3e/<=440V 50A, 208V AC 50/60Hz coil, screw clamp terminals

LC1D50LE7

**Product availability: Stock - Normally stocked in distribution facility**

### Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
Contactors application	Resistive load Motor control
Utilisation category	AC-3 AC-2 AC-1 AC-4 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] 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
[Uc] control circuit voltage	208 V AC 50/60 Hz

### Complementary

Motor power kW	22 kW at 380...400 V AC 50 Hz 25 kW at 415 V AC 50 Hz 30 kW at 440 V AC 50 Hz 30 kW at 500 V AC 50 Hz 33 kW at 660...690 V AC 50 Hz 15 kW at 220...230 V AC 50 Hz 30 kW at 1000 V AC 50 Hz
Maximum Horse Power Rating	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
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 control circuit 80 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	900 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947

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

<b>Associated fuse rating</b>	10 A gG for control 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
<b>Power dissipation per pole</b>	3.7 W AC-3 9.6 W AC-1 3.7 W AC-3e
<b>[Ui] rated insulation voltage</b>	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
<b>Overvoltage category</b>	III
<b>[Uimp] rated impulse withstand voltage</b>	8 kV IEC 60947
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	6000000 cycles
<b>Control circuit type</b>	AC 50/60 Hz
<b>Coil technology</b>	Without built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.3...0.6 U <sub>c</sub> (-40...158 °F (-40...70 °C)):drop-out AC 50/60 Hz 0.8...1.1 U <sub>c</sub> (-40...140 °F (-40...60 °C)):operational AC 50 Hz 0.85...1.1 U <sub>c</sub> (-40...140 °F (-40...60 °C)):operational AC 60 Hz 1...1.1 U <sub>c</sub> (140...158 °F (60...70 °C)):operational AC 50/60 Hz
<b>Inrush power in VA</b>	140 VA cos phi 0.75 (at 68 °F (20 °C)) 160 VA cos phi 0.75 (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
<b>Heat dissipation</b>	4...5 W at 50/60 Hz for control circuit
<b>Operating time</b>	4...19 ms opening 12...26 ms closing
<b>Maximum operating rate</b>	3600 cyc/h at 60 °C
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> ) - cable stiffness: rigid 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: 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 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...16 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
<b>Tightening torque</b>	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm 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
<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>Terminals description ISO n°1</b>	(A1-A2)CO (13-14)NO (21-22)NC
<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 de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
<b>Mounting Support</b>	Rail Plate

## Environment

<b>Standards</b>	CSA C22.2 No 14 UL 508 IEC 60947-4-1 IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1
<b>Product Certifications</b>	CCC CSA BV GL UL GOST DNV RINA LROS (Lloyds register of shipping) UKCA
<b>IP degree of protection</b>	IP2X IEC 60529 IP2X VDE 0106
<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 opened 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz)
<b>Height</b>	5 in (127 mm)
<b>Width</b>	3.0 in (75 mm)
<b>Depth</b>	4.7 in (119 mm)
<b>Net Weight</b>	3.09 lb(US) (1.4 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222357
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110296143
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	5.12 in (13.0 cm)
<b>Package 1 Width</b>	5.12 in (13.0 cm)
<b>Package 1 Length</b>	3.54 in (9.0 cm)
<b>Package weight(Lbs)</b>	3.09 lb(US) (1.4 kg)

## **Contractual warranty**

<b>Warranty</b>	18 months
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## 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	
Carbon footprint (kg CO2 eq, Total Life cycle)	62
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
<a href="#">EU RoHS Directive</a>	Compliant
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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 Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	 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

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The image shows a TeSys Deca contactor, model LC1D09, which is a three-phase AC contactor. It is a black plastic unit with a green control panel. The top panel has three main terminals labeled 1, 2, and 3. The middle panel has three auxiliary terminals labeled 13 NO, 14 NO, and 22 NC. The bottom panel has three main terminals labeled 4, 5, and 6. The Schneider logo and 'TeSys Deca' branding are visible on the green panel.

### 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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## TeSys Deca Contactors



A black TeSys Deca contactor with a green label that reads 'TeSys Schneider Electric' and 'Deca'.

**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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Technical Illustration

Assembly's dimensions

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