

# Product data sheet

Specifications



IEC contactor, TeSys D,  
nonreversing, 65A, 40HP at  
480VAC, up to 100kA SCCR, 3  
phase, 3 NO, 240VAC 50/60Hz coil,  
open

LC1D65U7

**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
Utilisation category	AC-4 AC-1 AC-2 AC-3e AC-3
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 65 A (at <140 °F (60 °C)) at 240 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at 240 V AC AC-1 for power circuit
[Uc] control circuit voltage	240 V AC 50/60 Hz

## Complementary

Motor power kW	11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 380...400 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660...690 V AC 50 Hz (AC-3) 18.5 kW at 220...230 V AC 50 Hz (AC-3) 30 kW at 415 V AC 50 Hz (AC-3) 37 kW at 1000 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 380...400 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 660...690 V AC 50 Hz (AC-3e) 18.5 kW at 220...230 V AC 50 Hz (AC-3e) 30 kW at 415 V AC 50 Hz (AC-3e) 37 kW at 1000 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz 30 kW at 380...400 V AC 50 Hz
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

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

<b>Pole contact composition</b>	3 NO
<b>Protective cover</b>	With
<b>[I<sub>th</sub>] conventional free air thermal current</b>	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for control circuit
<b>I<sub>rms</sub> rated making capacity</b>	140 A at 440 V AC for control circuit conforming to IEC 60947-5-1 140 A AC for control circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	1000 kA at 440 V for power circuit conforming to IEC 60947
<b>[I<sub>cw</sub>] rated short-time withstand current</b>	520 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit
<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>Average impedance</b>	1.5 Ohm - I <sub>th</sub> 80 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	6.4 W AC-4 4.2 W AC-3e 6.3 W AC-3 9.6 W AC-1
<b>[U<sub>i</sub>] 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 CSA IEC 60947-1 Control circuit 600 V CSA
<b>Overvoltage category</b>	III
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	6 kV IEC 60947
<b>Safety reliability level</b>	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
<b>Control circuit voltage limits</b>	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 0.3...0.6 U <sub>c</sub> (-40...158 °F (-40...70 °C)):drop-out AC 50/60 Hz
<b>Inrush power in VA</b>	160 VA cos phi 0.75 (at 68 °F (20 °C)) 140 VA cos phi 0.75 (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 13 VA 60 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>	12...26 ms closing 4...19 ms opening
<b>Maximum operating rate</b>	3600 cyc/mn at 60 °C

<b>Connections - terminals</b>	<p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>Power circuit: screw terminals 1 0.004...0.04 in<sup>2</sup> (2.5...25 mm<sup>2</sup>) - cable stiffness: rigid</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: rigid</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: rigid</p>
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<b>Tightening torque</b>	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2</p> <p>Power circuit 44.3 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm</p>
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Auxiliary contacts type</b>	<p>Mirror contact 1 NC IEC 60947-4-1</p> <p>Mechanically linked 1 NO + 1 NC IEC 60947-5-1</p>
<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>	<p>1.5 ms on energisation between NC and NO contacts</p> <p>1.5 ms on de-energisation between NC and NO contacts</p>
<b>Mounting Support</b>	<p>Plate</p> <p>Rail</p>

## Environment

<b>Standards</b>	<p>EN 60947-4-1</p> <p>CSA C22.2 No 14</p> <p>IEC 60947-4-1</p> <p>EN 60947-5-1</p> <p>UL 508</p>
<b>Product Certifications</b>	<p>DNV</p> <p>UL</p> <p>RINA</p> <p>CCC</p> <p>CSA</p> <p>LROS (Lloyds register of shipping)</p> <p>BV</p> <p>GL</p> <p>UKCA</p>
<b>IP degree of protection</b>	<p>IP2X VDE 0106</p> <p>IP2X IEC 60529</p>
<b>Protective treatment</b>	TH 3)IEC 60068-2-30
<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>	4.8 in (122 mm)
<b>Width</b>	2.8 in (70 mm)
<b>Depth</b>	4.6 in (118 mm)
<b>Net Weight</b>	4.817 lb(US) (2.185 kg)
<b>Quantity per Set</b>	Set of 10

## Ordering and shipping details

<b>Category</b>	US101222357
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3389110437836
<b>Returnability</b>	Yes
<b>Country of origin</b>	CZ

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	5.51 in (14.000 cm)
<b>Package 1 Width</b>	5.20 in (13.200 cm)
<b>Package 1 Length</b>	3.74 in (9.500 cm)
<b>Package weight(Lbs)</b>	3.159 lb(US) (1.433 kg)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	5
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	16.444 lb(US) (7.459 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 >](#)

 <b>Environmental footprint</b>	
Carbon footprint (kg CO2 eq, Total Life cycle)	82
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

### Use Better

 <b>Materials and Substances</b>	
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

 <b>Repack and remanufacture</b>	
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.

Technical Illustration

Assembly's dimensions

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