

# Product data sheet

Specifications



IEC contactor, TeSys Deca Green, nonreversing, 25A, 15HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 100/250VAC/VDC coil

LC1D25KUE

Product availability: Stock - Normally stocked in distribution facility

Price\*: 59.00 USD

## Main

Range	TeSys TeSys Deca
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	25 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-3 for power circuit 40 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-1 for power circuit 25 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...250 V DC

## Complementary

Motor power kW	5.5 kW at 220...230 V AC 50 Hz (AC-3) 11 kW at 380...400 V AC 50 Hz (AC-3) 11 kW at 415 V AC 50 Hz (AC-3) 11 kW at 440 V AC 50 Hz (AC-3) 15 kW at 500 V AC 50 Hz (AC-3) 15 kW at 660...690 V AC 50 Hz (AC-3) 5.5 kW at 220...230 V AC 50 Hz (AC-3e) 11 kW at 380...400 V AC 50 Hz (AC-3e) 11 kW at 415 V AC 50 Hz (AC-3e) 11 kW at 440 V AC 50 Hz (AC-3e) 15 kW at 500 V AC 50 Hz (AC-3e) 15 kW at 660...690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	2 hp at 115 V AC 60 Hz for 1 phase motors 3 hp at 230/240 V AC 60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 60 Hz for 3 phase motors 7.5 hp at 230/240 V AC 60 Hz for 3 phase motors 15 hp at 460/480 V AC 60 Hz for 3 phase motors 20 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO

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

<b>Protective cover</b>	With
<b>[I<sub>th</sub>] conventional free air thermal current</b>	10 A (at 140.0000000000 °F (60 °C)) for signalling circuit 40 A (at 140.0000000000 °F (60 °C)) for power circuit
<b>Irms rated making capacity</b>	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	450 A at 440 V for power circuit conforming to IEC 60947
<b>[I<sub>cw</sub>] rated short-time withstand current</b>	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 50 A 104.0000000000 °F (40 °C) - 10 min for power circuit 120 A 104.0000000000 °F (40 °C) - 1 min for power circuit 240 A 104.0000000000 °F (40 °C) - 10 s for power circuit 380 A 104.0000000000 °F (40 °C) - 1 s for power circuit
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit
<b>Average impedance</b>	2 mOhm - I <sub>th</sub> 40 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	3.2 W AC-1 1.25 W AC-3 1.25 W AC-3e
<b>[U<sub>i</sub>] rated insulation voltage</b>	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
<b>Overvoltage category</b>	III
<b>Pollution degree</b>	3
<b>[U<sub>imp</sub>] 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 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	15 Mcycles
<b>Electrical durability</b>	2 Mcycles 21 A AC-3 <= 440 V 0.9 Mcycles 40 A AC-1 <= 440 V 2 Mcycles 21 A AC-3e <= 440 V
<b>Control circuit type</b>	AC/DC 50/60 Hz AC/DC electronic
<b>Coil technology</b>	Built-in bidirectional peak limiting
<b>Control circuit voltage limits</b>	<= 0.1 U <sub>c</sub> -40.0000000000...158.0000000000 °F (-40...70 °C) drop-out AC/DC 0.85...1.1 U <sub>c</sub> -40.0000000000...140.0000000000 °F (-40...60 °C) operational AC/DC 1...1.1 U <sub>c</sub> 140.0000000000...158.0000000000 °F (60...70 °C) operational AC/DC
<b>Inrush power in VA</b>	25 VA 50/60 Hz (at 68.0000000000 °F (20 °C))
<b>Inrush power in W</b>	18 W 68.0000000000 °F (20 °C))
<b>Hold-in power consumption in VA</b>	1.6 VA 50/60 Hz (at 68.0000000000 °F (20 °C))
<b>Hold-in power consumption in W</b>	1.1 W 68.0000000000 °F (20 °C)
<b>Heat dissipation</b>	1.1 W at 50/60 Hz
<b>Operating time</b>	45...55 ms closing 20...90 ms opening
<b>Maximum operating rate</b>	3600 cyc/h 140.0000000000 °F (60 °C)

<b>Connections - terminals</b>	<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...0.006 in<sup>2</sup> (1...4 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>Control circuit: screw clamp terminals 1 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in<sup>2</sup> (1...4 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Power circuit: screw clamp terminals 1 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 0.002...0.02 in<sup>2</sup> (1...10 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 0.002...0.009 in<sup>2</sup> (1.5...6 mm<sup>2</sup>) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 0.002...0.02 in<sup>2</sup> (1.5...10 mm<sup>2</sup>) - cable stiffness: solid</p> <p>Power circuit: screw clamp terminals 2 0.004...0.02 in<sup>2</sup> (2.5...10 mm<sup>2</sup>) - cable stiffness: solid</p>
--------------------------------	---

<b>Tightening torque</b>	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2 M4</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 M3.5</p>
--------------------------	--

<b>Auxiliary contact composition</b>	1 NO + 1 NC
--------------------------------------	-------------

<b>Auxiliary contacts type</b>	<p>Mechanically linked 1 NO + 1 NC IEC 60947-5-1</p> <p>Mirror contact 1 NC IEC 60947-4-1</p>
--------------------------------	---

<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>	<p>1.5 ms on de-energisation between NC and NO contact</p> <p>1.5 ms on energisation between NC and NO contact</p>
-------------------------	--

<b>Mounting Support</b>	<p>Plate</p> <p>Rail</p>
-------------------------	--------------------------

## Environment

<b>Standards</b>	<p>EN/IEC 60947-4-1</p> <p>EN/IEC 60947-5-1</p> <p>UL 60947-4-1</p> <p>CSA C22.2 No 60947-4-1</p> <p>IEC 60335-1</p>
------------------	--

<b>Product Certifications</b>	<p>CCC</p> <p>CSA</p> <p>EAC</p> <p>UL</p> <p>KC</p> <p>DNV-GL</p> <p>LROS (Lloyds register of shipping)</p> <p>UKCA</p>
-------------------------------	--

<b>IP degree of protection</b>	IP20 front face IEC 60529
--------------------------------	---------------------------

<b>Climatic withstand</b>	<p>IACS E10 exposure to damp heat</p> <p>IEC 60947-1 Annex Q category D exposure to damp heat</p>
---------------------------	---

<b>Permissible ambient air temperature around the device</b>	<p>-40.0000000000...140.0000000000 °F (-40...60 °C)</p> <p>140.0000000000...158.0000000000 °F (60...70 °C) with derating</p>
--	--

<b>Operating altitude</b>	0...9842.52 ft (0...3000 m)
---------------------------	-----------------------------

<b>Fire resistance</b>	1562.0000000000 °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) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor closed 15 Gn for 11 ms) Shocks contactor open 8 Gn for 11 ms)
<b>Height</b>	3.3 in (85 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	3.6 in (92 mm)
<b>Net Weight</b>	0.955 lb(US) (0.433 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222356
<b>Discount Schedule</b>	0112
<b>GTIN</b>	3606480987748
<b>Returnability</b>	Yes
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.165 in (5.500 cm)
<b>Package 1 Width</b>	3.740 in (9.500 cm)
<b>Package 1 Length</b>	4.646 in (11.800 cm)
<b>Package 1 Weight</b>	16.014 oz (454.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	15
<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>	15.675 lb(US) (7.110 kg)

## Contractual warranty

<b>Warranty</b>	18 months
-----------------	-----------

## 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

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

✓ Halogen Free Plastic Parts & Cables Product

## Certifications & Standards

**Eu Rohs Directive** [Compliant with Exemptions](#)

**China Rohs Regulation** [China RoHS declaration](#)  
Product out of China RoHS scope. Substance declaration for your information.

**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** [End of Life Information](#)