

# Product data sheet

Specifications



## contactor TeSys Deca - 3 poles - AC-3 440V 50 A - coil 24 V AC

LC1D506B7

⚠ Discontinued on: Jul 12, 2021

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### Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-2 AC-4 AC-1
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
[Uc] control circuit voltage	24 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
<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 = 2000000 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>Connections - terminals</b>	Control circuit: lugs - external diameter: 0.3 in (8 mm) Power circuit: lugs - external diameter: 0.6 in (16 mm)
<b>Tightening torque</b>	Control circuit 15.05 lbf.in (1.7 N.m) lugs Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) lugs flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 N.m) lugs flat Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) lugs 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>	(21-22)NC (13-14)NO (A1-A2)CO
<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>	IEC 60947-4-1 EN 60947-4-1 UL 508 IEC 60947-5-1 EN 60947-5-1 CSA C22.2 No 14
<b>Product Certifications</b>	GOST LROS (Lloyds register of shipping) DNV RINA GL BV CCC CSA UL
<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>	22357-CTR, TESYS D, OPEN, 40-65A AC
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110435801
<b>Returnability</b>	No
<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>	5.1 in (13 cm)
<b>Package 1 Width</b>	5.1 in (13 cm)
<b>Package 1 Length</b>	3.5 in (9 cm)
<b>Package weight(Lbs)</b>	3.09 lb(US) (1.4 kg)

## Contractual warranty

<b>Warranty (in months)</b>	18
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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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

## Use Better



### Materials and Substances

[EU RoHS Directive](#)

Compliant

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)

PVC free

Yes

## Use Longer



### Lifetime extension

Repair

No

## Use Again



### Repack and remanufacture

[Circularity Profile](#)

[End of Life Information](#)

WEEE Label



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