

# Product datasheet

Specifications



TeSys Deca contactor, 3P (3NO),  
AC-3  $\leq 440\text{V}$  150 A, 125 V DC  
standard coil, lugs/bars terminals

LC1D1506GD

## Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	Power circuit: $\leq 1000\text{ V AC } 25\text{...}400\text{ Hz}$ Power circuit: $\leq 300\text{ V DC}$
[Ie] rated operational current	200 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-1}$ for power circuit 150 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-3}$ for power circuit
[Uc] control circuit voltage	125 V DC

## Complementary

Motor power kW	40 kW at 220...230 V AC 50/60 Hz (AC-3) 75 kW at 380...400 V AC 50/60 Hz (AC-3) 80 kW at 415...440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 660...690 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 22 kW at 400 V AC 50/60 Hz (AC-4)
Motor power hp	40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	200 A (at $60\text{ }^\circ\text{C}$ ) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1660 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

<b>[Icw] rated short-time withstand current</b>	250 A 40 °C - 10 min for power circuit 580 A 40 °C - 1 min for power circuit 1200 A 40 °C - 10 s for power circuit 1400 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at ≤ 690 V coordination type 1 for power circuit 250 A gG at ≤ 690 V coordination type 2 for power circuit
<b>Average impedance</b>	0.6 mOhm - lth 200 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	24 W AC-1 13.5 W AC-3
<b>[U] rated insulation voltage</b>	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
<b>Overvoltage category</b>	III
<b>Pollution degree</b>	3
<b>[Uimp] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947
<b>Safety reliability level</b>	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical durability</b>	8 Mcycles
<b>Electrical durability</b>	0.85 Mcycles 150 A AC-3 at Ue ≤ 440 V 1 Mcycles 200 A AC-1 at Ue ≤ 440 V
<b>Control circuit type</b>	DC standard
<b>Coil technology</b>	With integral suppression device
<b>Control circuit voltage limits</b>	0.75...1.2 Uc (-40...55 °C):operational DC 0.15...0.4 Uc (-40...70 °C):drop-out DC 1...1.2 Uc (55...70 °C):operational DC
<b>Inrush power in W</b>	270...365 W (at 20 °C)
<b>Hold-in power consumption in W</b>	2.4...5.1 W at 20 °C
<b>Operating time</b>	20...35 ms closing 40...75 ms opening
<b>Time constant</b>	25 ms
<b>Connections - terminals</b>	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 1 - busbar cross section: 5 x 25 mm
<b>Tightening torque</b>	Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8 Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<b>Auxiliary contacts type</b>	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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>	Plate
	Rail

## Environment

<b>Standards</b>	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508

<b>Product certifications</b>	CSA
	CCC
	GL
	LROS (Lloyds register of shipping)
	RINA
	UL
	GOST
	BV DNV

<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
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<b>Protective treatment</b>	TH conforming to IEC 60068-2-30
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<b>Climatic withstand</b>	conforming to IACS E10 exposure to damp heat
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<b>Permissible ambient air temperature around the device</b>	-40...60 °C
	60...70 °C with derating

<b>Operating altitude</b>	0...3000 m
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<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
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<b>Flame retardance</b>	V1 conforming to UL 94
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<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 (6 Gn for 11 ms)

<b>Height</b>	158 mm
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<b>Width</b>	120 mm
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<b>Depth</b>	136 mm
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<b>Net weight</b>	2.5 kg
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## Packing Units

<b>Unit Type of Package 1</b>	PCE
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<b>Number of Units in Package 1</b>	1
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<b>Package 1 Height</b>	16.8 cm
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<b>Package 1 Width</b>	20.8 cm
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<b>Package 1 Length</b>	18.5 cm
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<b>Package 1 Weight</b>	2.11 kg
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## 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 >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Compliant

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

End of life manual availability

[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