

# Product datasheet

Specifications



Contactor, TeSys Deca Advanced, 3P(3NO), AC-3/AC-3e,  $\leq 440\text{V}$ , 150A, 100-250V AC/DC coil, lugs-ring or bars

LC1D150A6KUE

EAN Code: 3606487155904

## Main

Range	TeSys Deca
Range of product	TeSys Deca Advanced
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-1 AC-4 DC-1 DC-3 DC-5
Poles description	3P
[Ue] rated operational voltage	Power circuit: $\leq 1000\text{ V AC } 16.67\dots 400\text{ Hz}$ Power circuit: $\leq 300\text{ V DC}$
[Ie] rated operational current	150 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-3}$ for power circuit 150 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-3e}$ for power circuit 200 A (at $\leq 60\text{ }^\circ\text{C}$ ) at $\leq 440\text{ V AC AC-1}$ for power circuit
[Uc] control circuit voltage	100...250 V AC 50/60 Hz 100...250 V DC

## Complementary

Motor power kW	40 kW at 230 V AC 50/60 Hz (AC-3) 75 kW at 400 V AC 50/60 Hz (AC-3) 80 kW at 415 V AC 50/60 Hz (AC-3) 90 kW at 440 V AC 50/60 Hz (AC-3) 90 kW at 500 V AC 50/60 Hz (AC-3) 100 kW at 690 V AC 50/60 Hz (AC-3) 75 kW at 1000 V AC 50/60 Hz (AC-3) 40 kW at 230 V AC 50/60 Hz (AC-3e) 75 kW at 400 V AC 50/60 Hz (AC-3e) 80 kW at 415 V AC 50/60 Hz (AC-3e) 90 kW at 440 V AC 50/60 Hz (AC-3e) 90 kW at 500 V AC 50/60 Hz (AC-3e) 100 kW at 690 V AC 50/60 Hz (AC-3e) 75 kW at 1000 V AC 50/60 Hz (AC-3e) 37 kW at 230 V AC 50/60 Hz (AC-4) 75 kW at 400 V AC 50/60 Hz (AC-4) 75 kW at 440 V AC 50/60 Hz (AC-4) 75 kW at 500 V AC 50/60 Hz (AC-4) 80 kW at 690 V AC 50/60 Hz (AC-4) 65 kW at 1000 V AC 50/60 Hz (AC-4)
Motor power hp	40 hp at 200/208 V 60 Hz 50 hp at 230/240 V 60 Hz 100 hp at 460/480 V 60 Hz 125 hp at 575/600 V 60 Hz

<b>Compatibility code</b>	LC1D
<b>Pole contact composition</b>	3 NO
<b>Protective cover</b>	With
<b>[Ith] conventional free air thermal current</b>	200 A (at 60 °C) for power circuit
<b>Irms rated making capacity</b>	1885 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
<b>Rated breaking capacity</b>	1440 A at 440 V for power circuit conforming to IEC 60947
<b>[Icw] rated short-time withstand current</b>	350 A 40 °C - 10 min for power circuit 600 A 40 °C - 1 min for power circuit 1280 A 40 °C - 10 s for power circuit 1800 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>	160 A aM at <= 440 V for power circuit 125 A aM at <= 690 V for power circuit 250 A gG at <= 690 V for power circuit 10 A gG for signalling circuit 0.2 A gG for control circuit
<b>Average impedance</b>	0.45 mOhm - Ith 200 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	8 W AC-3 8 W AC-3e 22 W AC-1
<b>[Ui] 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 0.85 Mcycles 150 A AC-3e at Ue <= 440 V 0.5 Mcycles 200 A AC-1 at Ue <= 440 V
<b>Control circuit type</b>	AC at 50/60 Hz DC
<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.8 Uc Min...1.1 Uc Max (-40...60 °C):operational AC/DC 0.1 Uc Max (-40...60 °C):drop-out AC/DC
<b>Inrush power in VA</b>	170 VA (at 20 °C)
<b>Inrush power in W</b>	105 W (at 20 °C)
<b>Hold-in power consumption in VA</b>	8 VA (at 20 °C)
<b>Hold-in power consumption in W</b>	4.5 W at 20 °C
<b>Heat dissipation</b>	1.1 W at 20 °C
<b>Operating time</b>	25...90 ms opening 20...90 ms closing

<b>Maximum operating rate</b>	2400 cyc/h at 60 °C 3600 cyc/h at Uc at 20 °C
<b>Connections - terminals</b>	Power circuit: lugs-ring terminals - external diameter: 25 mm Power circuit: bars 1 - busbar cross section: 5 x 25 mm Power circuit: bars 2 - busbar cross section: 5 x 25 mm Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end
<b>Tightening torque</b>	Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
<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>	16.67...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

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-4-1 CSA C22.2 No 60947-5-1 JIS C8201-4-1 JIS C8201-5-1 GB/T 14048.4 GB/T 14048.5
<b>Product certifications</b>	CB Scheme CCC cULus CE UKCA EU-RO-MR by DNV-GL
<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<b>Protective treatment</b>	None conforming to IEC 60068-2-30
<b>Climatic withstand</b>	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
<b>Permissible ambient air temperature around the device</b>	-40...60 °C operation 60...70 °C with derating -60...80 °C storage
<b>Operating altitude</b>	0...3000 m without derating
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-11

<b>Mechanical robustness</b>	Vibrations contactor open (2 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (4 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks contactor open (10 Gn for 11 ms) conforming to IEC 60068-2-27 Shocks contactor closed (15 Gn for 11 ms) conforming to IEC 60068-2-27
<b>Height</b>	152 mm
<b>Width</b>	99 mm
<b>Depth</b>	155 mm
<b>Product weight</b>	2.2 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	13.500 cm
<b>Package 1 Width</b>	18.500 cm
<b>Package 1 Length</b>	19.300 cm
<b>Package 1 Weight</b>	2.410 kg
<b>Unit Type of Package 2</b>	S03
<b>Number of Units in Package 2</b>	4
<b>Package 2 Height</b>	30.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	10.095 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	24
<b>Package 3 Height</b>	73.500 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	70.930 kg

## Logistical informations

<b>Country of origin</b>	CN
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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 >](#)



### Environmental footprint

Total lifecycle Carbon footprint	363 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	24 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.3 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	334 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	608af421-265e-4dfd-b0b3-1192c9364536
EU RoHS Directive	<a href="#">Compliant By Exemption</a>
REACH Regulation	<a href="#">Reference contains Substances of Very High Concern above the threshold</a>
Halogen-free status	Halogen free plastic parts product

## Use Longer



### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	78
End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 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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