

# Product datasheet

Specifications



## TeSys Deca contactor, 3P (3NO), AC-3/AC-3e $\leq 440\text{V}$ 95 A, 24 V DC wide range coil, ring-lug terminals

LC1D956BW

⚠ Discontinued on: 23 Jan 2021

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### Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Poles description	3P
[Ue] rated operational voltage	Power circuit: 1000 V AC 25...400 Hz
[Ie] rated operational current	95 A (at $\leq 60^\circ\text{C}$ ) at $\leq 440\text{ V AC-3}$ for power circuit 125 A (at $\leq 60^\circ\text{C}$ ) at $\leq 690\text{ V AC-1}$ for power circuit
[Uc] control circuit voltage	24 V DC

### Complementary

Motor power kW	25 kW at 220...230 V AC 50 Hz (AC-3) 45 kW at 380...400 V AC 50 Hz (AC-3) 45 kW at 415...440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660...690 V AC 50 Hz (AC-3) 45 kW at 1000 V AC 50 Hz (AC-3)
Motor power hp	7.5 hp at 120 V AC 60 Hz for 1 phase motors 15 hp at 230/240 V AC 60 Hz for 1 phase motors 30 hp at 200/208 V AC 60 Hz for 3 phases motors 30 hp at 230/240 V AC 60 Hz for 3 phases motors 60 hp at 460/480 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at $60^\circ\text{C}$ ) for signalling circuit 125 A (at $60^\circ\text{C}$ ) for power circuit
Irms rated making capacity	1100 A at 440 V AC 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
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947

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

<b>[Icw] rated short-time withstand current</b>	1100 A 40 °C - 1 s for power circuit 800 A 40 °C - 10 s for power circuit 400 A 40 °C - 1 min for power circuit 135 A 40 °C - 10 min for power circuit 140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s for signalling circuit
<b>Associated fuse rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at ≤ 690 V coordination type 1 for power circuit 160 A gG at ≤ 690 V coordination type 2 for power circuit
<b>Average impedance</b>	0.8 mOhm - lth 125 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	12.5 W AC-1 7.2 W AC-3
<b>[U<sub>i</sub>] rated insulation voltage</b>	Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
<b>Overvoltage category</b>	III
<b>Pollution degree</b>	3
<b>[U<sub>imp</sub>] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947
<b>Safety reliability level</b>	B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical durability</b>	10 Mcycles
<b>Electrical durability</b>	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1
<b>Control circuit type</b>	DC wide range
<b>Coil technology</b>	Without built-in suppressor module
<b>Control circuit voltage limits</b>	0.75...1.2 U <sub>c</sub> (-40...55 °C):operational DC 0.1...0.3 U <sub>c</sub> (-40...70 °C):drop-out DC 1...1.2 U <sub>c</sub> (55...70 °C):operational DC
<b>Inrush power in W</b>	22 W (at 20 °C)
<b>Hold-in power consumption in W</b>	22 W at 20 °C
<b>Operating time</b>	95...130 ms closing 20...35 ms opening
<b>Time constant</b>	75 ms
<b>Maximum operating rate</b>	3600 cyc/h 60 °C
<b>Connections - terminals</b>	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 17 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: 5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Power circuit: 5 N.m - on bars - with screwdriver flat Ø 8 mm M6 Power circuit: 5 N.m - on bars hexagonal screw head 10 mm M6
<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>	Rail Plate
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## Environment

<b>Standards</b>	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.4
<b>Product certifications</b>	IECEE CB Scheme CCC EAC LROS (Lloyds register of shipping) RINA BV DNV-GL
<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<b>Protective treatment</b>	TH conforming to IEC 60068-2-30
<b>Climatic withstand</b>	conforming to IACS E10 exposure to damp heat
<b>Permissible ambient air temperature around the device</b>	-60...80 °C storage -40...60 °C operation 60...70 °C with derating
<b>Operating altitude</b>	0...3000 m
<b>Fire resistance</b>	850 °C conforming to 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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor closed (10 Gn for 11 ms)
<b>Height</b>	127 mm
<b>Width</b>	85 mm
<b>Depth</b>	186 mm
<b>Net weight</b>	2.61 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>	19.5 cm
<b>Package 1 Width</b>	14 cm
<b>Package 1 Length</b>	9.5 cm
<b>Package 1 Weight</b>	2.385 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 >](#)

### Use Better

#### Materials and Substances

[EU RoHS Directive](#)

Compliant

PVC free

Yes

### Use Longer

#### Lifetime extension

Repair

No

### Use Again

#### Repack and remanufacture

WEEE Label



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