

# Product datasheet

Specifications



## contactor TeSys LC1-D - 4 poles - AC-1 - 440 V 125 A - coil 120 V AC 50 Hz

LC1D80004G5

EAN Code: 3389110074222

! Discontinued

### Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Poles description	4P
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 25...400 Hz
[Ie] rated operational current	125 A (at $\leq 60$ °C) at $\leq 440$ V AC AC-1 for power circuit 80 A (at $\leq 60$ °C) AC AC-3 for power circuit 80 A (at $\leq 60$ °C) AC AC-3e for power circuit 55 A (at $\leq 60$ °C) AC AC-4 for power circuit
[Uc] control circuit voltage	120 V AC 50 Hz

### Complementary

Motor power kW	22 kW at 220...230 V AC 50/60 Hz (AC-3) 37 kW at 380...400 V AC 50/60 Hz (AC-3) 45 kW at 415...440 V AC 50/60 Hz (AC-3) 55 kW at 500 V AC 50/60 Hz (AC-3) 45 kW at 660...690 V AC 50/60 Hz (AC-3) 22 kW at 220...230 V AC 50/60 Hz (AC-3e) 37 kW at 380...400 V AC 50/60 Hz (AC-3e) 45 kW at 415...440 V AC 50/60 Hz (AC-3e) 55 kW at 500 V AC 50/60 Hz (AC-3e) 45 kW at 660...690 V AC 50/60 Hz (AC-3e) 15 kW at 400 V AC 50/60 Hz (AC-4)
Motor power hp	20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to CSA 20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to UL 15 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 15 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL 25 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to CSA 25 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to UL 60 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to CSA 60 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to UL 60 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to CSA 60 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL 7.5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 7.5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL
Compatibility code	LC1D
Pole contact composition	4 NO
Protective cover	With

<b>[Ith] conventional free air thermal current</b>	10 A (at 60 °C) for control circuit 125 A (at 60 °C) for power circuit
<b>Irms rated making capacity</b>	140 A AC for control circuit conforming to IEC 60947-5-1 1100 A at 440 V for power circuit conforming to IEC 60947
<b>Rated breaking capacity</b>	1100 A at 440 V for power circuit conforming to IEC 60947
<b>Associated fuse rating</b>	10 A gG for control circuit conforming to IEC 60947-5-1 160 A gG at ≤ 690 V coordination type 2 for power circuit 200 A gG at ≤ 690 V coordination type 1 for power circuit
<b>Average impedance</b>	0.8 mOhm - Ith 125 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	12.5 W AC-1
<b>[Ui] rated insulation voltage</b>	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 1000 V conforming to IEC 60947-1
<b>Overvoltage category</b>	III
<b>[Uimp] rated impulse withstand voltage</b>	8 kV conforming to IEC 60947
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical durability</b>	4000000 cycles 10000000 cycles
<b>Control circuit type</b>	AC at 50 Hz
<b>Coil technology</b>	Without built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.3...0.6 Uc (55 °C):drop-out AC 50/60 Hz 0.8...1.1 Uc (55 °C):operational AC 50 Hz 0.85...1.1 Uc (55 °C):operational AC 60 Hz 0.85...1.1 Uc (55 °C):operational AC 50/60 Hz
<b>Inrush power in VA</b>	200 VA cos phi 0.75 (at 20 °C) 220 VA cos phi 0.75 (at 20 °C) 245 VA cos phi 0.75 (at 20 °C)
<b>Hold-in power consumption in VA</b>	26 VA 50 Hz cos phi 0.3 (at 20 °C) 26 VA 60 Hz cos phi 0.3 (at 20 °C) 22 VA 60 Hz cos phi 0.3 (at 20 °C) 20 VA 50 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	6...10 W at 50/60 Hz for control circuit
<b>Operating time</b>	20...35 ms closing 6...20 ms opening
<b>Maximum operating rate</b>	3600 cyc/h 60 °C

<b>Connections - terminals</b>	Control circuit: screw clamp terminal 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end
	Control circuit: screw clamp terminal 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end
	Control circuit: screw clamp terminal 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminal 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminal 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminal 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminal 1 4...50 mm <sup>2</sup> - cable stiffness: solid without cable end
	Power circuit: screw clamp terminal 2 4...25 mm <sup>2</sup> - cable stiffness: solid without cable end
	Power circuit: screw clamp terminal 1 4...50 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminal 2 4...25 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminal 1 4...50 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminal 2 4...16 mm <sup>2</sup> - cable stiffness: flexible with cable end

<b>Tightening torque</b>	Control circuit: 1.2 N.m - on screw clamp terminal - cable 1...2.5 mm <sup>2</sup> - with screwdriver flat Ø 6 mm
	Control circuit: 1.2 N.m - on screw clamp terminal - cable 1...2.5 mm <sup>2</sup> - with screwdriver Philips No 2
	Control circuit: 1.2 N.m - on screw clamp terminal - cable 1...4 mm <sup>2</sup> - with screwdriver flat Ø 6 mm
	Control circuit: 1.2 N.m - on screw clamp terminal - cable 1...4 mm <sup>2</sup> - with screwdriver Philips No 2
	Power circuit: 9 N.m - on 1 entry connector - cable 4...16 mm <sup>2</sup> - with screwdriver flat Ø 6 to Ø 8 mm hexagonal screw head
	Power circuit: 9 N.m - on 1 entry connector - cable 4...25 mm <sup>2</sup> - with screwdriver flat Ø 6 to Ø 8 mm hexagonal screw head
	Power circuit: 9 N.m - on 1 entry connector - cable 4...50 mm <sup>2</sup> - with screwdriver flat Ø 6 to Ø 8 mm hexagonal screw head

<b>Auxiliary contacts type</b>	type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
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<b>Minimum switching voltage</b>	17 V for control circuit
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<b>Minimum switching current</b>	5 mA for control circuit
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<b>Insulation resistance</b>	> 10 MOhm for control circuit
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<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>	UL 508
	IEC 60947-5-1
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	CSA C22.2 No 14

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

<b>IP degree of protection</b>	IP2X conforming to IEC 60529
	IP2X conforming to VDE 0106

<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>	-60...80 °C storage -40...60 °C operation 60...70 °C with derating
<b>Operating altitude</b>	3000 m without derating
<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>	Shocks contactor closed (10 Gn) Shocks contactor opened (8 gn) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz)
<b>Height</b>	127 mm
<b>Width</b>	96 mm
<b>Depth</b>	125 mm
<b>Net weight</b>	1.76 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## 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 Longer



#### Lifetime extension

Repair

No