

# Product datasheet

Specifications



## contactor TeSys LC1-D - 3 poles- AC-3 - 440 V 65 A - coil 120 V AC

LC1D65AG7TQ

EAN Code: 3389118347083

! Discontinued

### Main

Range	TeSys
Range of product	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Motor control
Utilisation category	AC-2 AC-4 AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25...400 Hz
[Ie] rated operational current	65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 50 A (at <60 °C) at 24 V AC AC-3 for power circuit 80 A (at <60 °C) at 24 V AC AC-1 for power circuit
[Uc] control circuit voltage	24 V AC 50/60 Hz

### Complementary

Motor power kW	30 kW at 380...400 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660...690 V AC 50 Hz (AC-3) 37 kW at 415...440 V AC 50 Hz (AC-3) 18.5 kW at 220...230 V AC 50 Hz (AC-3) 25 kW at 415 V AC 50 Hz 22 kW at 380...400 V AC 50 Hz
Motor power hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors 3 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	80 A (at 60 °C) for power circuit 10 A (at 60 °C) for control circuit
Irms rated making capacity	140 A at 440 V AC for control circuit conforming to IEC 60947-5-1 140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	900 kA at 440 V for power circuit conforming to IEC 60947

<b>[Icw] rated short-time withstand current</b>	810 A 40 °C - 1 s for power circuit 400 A 40 °C - 10 s for power circuit
<b>Associated fuse rating</b>	125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit conforming to IEC 60947-5-1 100 A gG at ≤ 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1
<b>Average impedance</b>	1.5 Ohm - Ith 80 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	6.3 W AC-3 9.6 W AC-1 3.7 W AC-3
<b>[Ui] rated insulation voltage</b>	Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified conforming to IEC 60947-1 Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V CSA certified conforming to IEC 60947-1 Control circuit: 600 V CSA certified
<b>Overvoltage category</b>	III
<b>[Uimp] rated impulse withstand voltage</b>	6 kV conforming to IEC 60947
<b>Safety reliability level</b>	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical durability</b>	6000000 cycles
<b>Control circuit type</b>	AC at 50/60 Hz
<b>Coil technology</b>	Without built-in
<b>Control circuit voltage limits</b>	0.8...1.1 U <sub>c</sub> (-40...60 °C):operational AC 50 Hz 0.85...1.1 U <sub>c</sub> (-40...60 °C):operational AC 60 Hz 1...1.1 U <sub>c</sub> (60...70 °C):operational AC 50/60 Hz 0.3...0.6 U <sub>c</sub> (-40...70 °C):drop-out AC 50/60 Hz
<b>Inrush power in VA</b>	160 VA cos phi 0.75 (at 20 °C) 140 VA cos phi 0.75 (at 20 °C)
<b>Hold-in power consumption in VA</b>	15 VA 50 Hz cos phi 0.3 (at 20 °C) 13 VA 60 Hz cos phi 0.3 (at 20 °C)
<b>Heat dissipation</b>	4...5 W at 50/60 Hz for control circuit
<b>Operating time</b>	12...26 ms closing 4...19 ms opening
<b>Maximum operating rate</b>	3600 cyc/mn 60 °C
<b>Connections - terminals</b>	Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: rigid without 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: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 1...35 mm <sup>2</sup> - cable stiffness: rigid Power circuit: EverLink BTR screw connectors 2 1...25 mm <sup>2</sup> - cable stiffness: rigid without cable end Power circuit: EverLink BTR screw connectors 1 1...35 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 1...25 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 1...35 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 1...25 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: rigid Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: rigid

<b>Tightening torque</b>	Control circuit: 1.7 N.m - on screw clamp terminal - cable 1...25 mm <sup>2</sup> - with screwdriver Philips No 24 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 1...25 mm <sup>2</sup> - with screwdriver hex (Allen key) 4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 35 mm <sup>2</sup> - with screwdriver hex (Allen key) 4 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm
<b>Auxiliary contact composition</b>	1 NO + 1 NC
<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
<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 energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
<b>Mounting support</b>	Plate Plate

## Environment

<b>Standards</b>	CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 UL 508 IEC 60947-5-1
<b>Product certifications</b>	LROS (pending) GOST RINA CSA CCC BV GL DNV DNV
<b>IP degree of protection</b>	IP2X conforming to VDE 0106 IP2X conforming to IEC 60529
<b>Protective treatment</b>	TH (pollution degree 3) conforming to IEC 60068-2-30
<b>Climatic withstand</b>	conforming to IEC 60947-1 Annex Q category D exposure to damp heat 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>	Shocks contactor closed (15 gn) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor opened (10 Gn)
<b>Height</b>	122 mm
<b>Width</b>	70 mm
<b>Depth</b>	118 mm
<b>Net weight</b>	2.185 kg
<b>Quantity per set</b>	Set of 10

## Packing Units

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Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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## Contractual warranty

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Warranty (in months)	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