





## Main

Range of product	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 1000 V AC 25...400 Hz for power circuit
[Ie] rated operational current	150 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 200 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	75 kW at 1000 V AC 50/60 Hz 100 kW at 660...690 V AC 50/60 Hz 90 kW at 500 V AC 50/60 Hz 80 kW at 415...440 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 40 kW at 220...230 V AC 50/60 Hz
Motor power HP (UL / CSA)	125 hp at 575/600 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 40 hp at 200/208 V AC 50/60 Hz for 3 phases motors
Control circuit type	DC standard
Control circuit voltage	24 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A at <= 60 °C for power circuit
Irms rated making capacity	1660 A at 440 V for power circuit conforming to IEC 60947 250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	1400 A <= 40 °C 1 s power circuit 1200 A <= 40 °C 10 s power circuit 580 A <= 40 °C 1 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 250 A <= 40 °C 10 min power circuit
Associated fuse rating	250 A gG at <= 690 V coordination type 2 for power circuit 315 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	0.60 mOhm at 50 Hz - Ith 200 A for power circuit

[Ui] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA
Electrical durability	1 Mcycles 200 A AC-1 at $U_e \leq 440$ V 0.85 Mcycles 150 A AC-3 at $U_e \leq 440$ V
Power dissipation per pole	13.5 W AC-3 24 W AC-1
Safety cover	With
Mounting support	Plate Rail
Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 CSA C22.2 No 14
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Power circuit: bars 1.5 x 25 mm Power circuit: lugs-ring terminals - external diameter: 25 mm Control circuit: lugs-ring terminals - external diameter: 8 mm
Tightening torque	Power circuit: 12 N.m - on bars hexagonal 13 mm screw : M8 Power circuit: 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat $\varnothing$ 6 mm screw : M3.5
Operating time	40...75 ms opening 20...35 ms closing
Safety reliability level	B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	8 Mcycles
Operating rate	1200 cyc/h at $\leq 60$ °C

## Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.15...0.4 $U_c$ at 55 °C drop-out 0.75...1.2 $U_c$ at 55 °C operational
Time constant	25 ms
Inrush power in W	270...365 W at 20 °C
Hold-in power consumption in W	2.4...5.1 W at 20 °C
Auxiliary contacts type	Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	1.5 ms on energisation (between NC and NO contact) 1.5 ms on de-energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit

## Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at Uc
Operating altitude	3000 m without derating in temperature
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor open 6 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5...300 Hz Vibrations contactor open 2 Gn, 5...300 Hz
Height	158 mm
Width	120 mm
Depth	136 mm
Product weight	2.5 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS	Compliant - since 0927 - <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available <a href="#">Download Product Environmental</a>
Product end of life instructions	Need no specific recycling operations

## Contractual warranty

Period	18 months
--------	-----------