



Price\* : 190.30 GBP



## Main

Range	TeSys
Product name	TeSys D
Product or component type	Contacteur
Device short name	LC1D
Contacteur application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	$\leq 300$ V DC for power circuit $\leq 690$ V AC 25...400 Hz for power circuit
[Ie] rated operational current	80 A ( $\leq 60$ °C) at $\leq 440$ V AC AC-1 for power circuit 65 A ( $\leq 60$ °C) at $\leq 440$ V AC AC-3 for power circuit
Motor power kW	11 kW at 400 V AC 50/60 Hz AC-4 30 kW at 380...400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 37 kW at 660...690 V AC 50/60 Hz AC-3 18.5 kW at 220...230 V AC 50/60 Hz AC-3
Motor power hp	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 5 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	115 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
Overtoltage category	III

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[I <sub>th</sub> ] conventional free air thermal current	80 A at ≤ 60 °C for power circuit 10 A at ≤ 60 °C for signalling circuit
I <sub>rms</sub> rated making capacity	1000 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
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[I <sub>cw</sub> ] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 520 A ≤ 40 °C 10 s power circuit 900 A ≤ 40 °C 1 s power circuit 110 A ≤ 40 °C 10 min power circuit 260 A ≤ 40 °C 1 min power circuit
Associated fuse rating	125 A gG at ≤ 690 V coordination type 1 for power circuit 125 A gG at ≤ 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mΩ at 50 Hz - I <sub>th</sub> 80 A for power circuit
[U <sub>i</sub> ] rated insulation voltage	600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL
Electrical durability	1.45 Mcycles 65 A AC-3 at U <sub>e</sub> ≤ 440 V 1.4 Mcycles 80 A AC-1 at U <sub>e</sub> ≤ 440 V
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	CCC CSA GOST UL
Connections - terminals	Control circuit : spring terminals 1 cable(s) 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : spring terminals 2 cable(s) 2.5 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : spring clamp terminal 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : spring clamp terminal 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : spring clamp terminal 2 cable(s) 1...25 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : spring clamp terminal 1 cable(s) 1...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : spring clamp terminal 2 cable(s) 1...25 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : spring clamp terminal 2 cable(s) 1...25 mm <sup>2</sup> - cable stiffness: flexible - with cable end
Tightening torque	Power circuit : 8 N.m - on screw clamp terminals - cable 25...35 mm <sup>2</sup> hexagonal 4 mm Power circuit : 5 N.m - on screw clamp terminals - cable 2.5...25 mm <sup>2</sup> hexagonal 4 mm
Operating time	12...26 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 2000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	6 Mcycles
Operating rate	3600 cyc/h at ≤ 60 °C

## Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 U <sub>c</sub> drop-out at 60 °C, AC 50/60 Hz 0.8...1.1 U <sub>c</sub> operational at 60 °C, AC 50 Hz 0.85...1.1 U <sub>c</sub> operational at 60 °C, AC 60 Hz
Inrush power in VA	140 VA at 20 °C (cos φ 0.75) 60 Hz

	160 VA at 20 °C (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	13 VA at 20 °C (cos φ 0.3) 60 Hz 15 VA at 20 °C (cos φ 0.3) 50 Hz
Heat dissipation	4...5 W at 50/60 Hz
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
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 de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit

## Environment

IP degree of protection	IP20 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	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	122 mm
Width	55 mm
Depth	120 mm
Product weight	0.86 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0001 - Schneider Electric declaration of conformity <a href="#">Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available <a href="#">Product environmental</a>
Product end of life instructions	Available <a href="#">End of life manual</a>

## Contractual warranty

Warranty period	18 months
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