



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-3 AC-1 AC-4
Poles description	3P
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	200 A (≤ 60 °C) at ≤ 440 V AC AC-1 for power circuit 150 A (≤ 60 °C) at ≤ 440 V AC AC-3 for power circuit
Motor power kW	40 kW at 220...230 V AC 50/60 Hz AC-3 75 kW at 380...400 V AC 50/60 Hz AC-3 80 kW at 415...440 V AC 50/60 Hz AC-3 90 kW at 500 V AC 50/60 Hz AC-3 100 kW at 660...690 V AC 50/60 Hz AC-3 75 kW at 1000 V AC 50/60 Hz AC-3 22 kW at 400 V AC 50/60 Hz AC-4
Motor power hp	40 hp at 200/208 V AC 50/60 Hz for 3 phases motors 50 hp at 230/240 V AC 50/60 Hz for 3 phases motors 100 hp at 460/480 V AC 50/60 Hz for 3 phases motors 125 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	110 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 _{th}] conventional free air thermal current	200 A at ≤ 60 °C for power circuit
I _{rms} rated making capacity	1660 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	1400 A at 440 V for power circuit conforming to IEC 60947
[I _{cw}] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 250 A ≤ 40 °C 10 min power circuit 580 A ≤ 40 °C 1 min power circuit 1200 A ≤ 40 °C 10 s power circuit 1400 A ≤ 40 °C 1 s 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	0.6 mΩ at 50 Hz - I _{th} 200 A for power circuit
[U _i] rated insulation voltage	1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 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	0.85 Mcycles 150 A AC-3 at U _e ≤ 440 V 1 Mcycles 200 A AC-1 at U _e ≤ 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3
Protective cover	With
Mounting support	Rail Plate
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	LROS (Lloyds register of shipping) BV UL GOST DNV GL CSA RINA CCC
Connections - terminals	Power circuit : bars 1 5 x 25 mm Control circuit : lugs-ring terminals - external diameter: 8 mm Power circuit : lugs-ring terminals - external diameter: 25 mm
Tightening torque	Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm screw : M3.5 Control circuit : 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 screw : M3.5 Power circuit : 12 N.m - on lugs-ring terminals hexagonal 13 mm screw : M8 Power circuit : 12 N.m - on bars hexagonal 13 mm screw : M8
Operating time	20...35 ms closing 40...75 ms opening
Safety reliability level	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
Mechanical durability	8 Mcycles
Operating rate	1200 cyc/h at ≤ 60 °C

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.3...0.5 U _c drop-out at 55 °C, AC 50/60 Hz 0.8...1.15 U _c operational at 55 °C, AC 50/60 Hz
Inrush power in VA	280...350 VA at 20 °C (cos φ 0.9) 60 Hz 280...350 VA at 20 °C (cos φ 0.9) 50 Hz

Hold-in power consumption in VA	2...18 VA at 20 °C (cos φ 0.9) 60 Hz 2...18 VA at 20 °C (cos φ 0.9) 50 Hz
Heat dissipation	3...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 U _c
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 closed 15 Gn for 11 ms Shocks contactor open 6 Gn for 11 ms
Height	158 mm
Width	120 mm
Depth	136 mm
Product weight	2.5 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0932 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available Product environmental
Product end of life instructions	Available End of life manual

Contractual warranty

Warranty period	18 months
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