

LC1D95G7

CONTACTOR 575VAC 95AMP IEC +OPTIONS



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
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 1000 V AC for power circuit <= 300 V DC 25...400 Hz for power circuit
[Ie] rated operational current	95 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 125 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	45 kW at 380...400 V AC 50/60 Hz 25 kW at 220...230 V AC 50/60 Hz 45 kW at 1000 V AC 50/60 Hz 45 kW at 660...690 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 45 kW at 415...440 V AC 50/60 Hz
Motor power HP (UL / CSA)	60 hp at 575/600 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	120 V AC 50/60 Hz
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	125 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	1100 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	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 400 A <= 40 °C 1 min power circuit 800 A <= 40 °C 10 s power circuit 135 A <= 40 °C 10 min power circuit 1100 A <= 40 °C 1 s power circuit

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Associated fuse rating	160 A gG at ≤ 690 V coordination type 2 for power circuit 200 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	0.8 mOhm at 50 Hz - Ith 125 A for power circuit
[Ui] rated insulation voltage	600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 1000 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications UL 600 V for power circuit certifications CSA
Electrical durability	1.3 Mcycles 125 A AC-1 at Ue ≤ 440 V 1.2 Mcycles 95 A AC-3 at Ue ≤ 440 V
Power dissipation per pole	7.2 W AC-3 12.5 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 DNV GL GOST RINA LROS
Connections - terminals	Power circuit : connector 2 cable(s) 4...25 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 4...16 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 2 cable(s) 4...25 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 4...50 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...4 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 1...2.5 mm ² - cable stiffness: flexible - with cable end
Tightening torque	Power circuit : 9 N.m - on connector hexagonal 4 mm Power circuit : 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	6...20 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	4 Mcycles
Operating rate	3600 cyc/h at $\leq 60\text{ }^{\circ}\text{C}$

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.85...1.1 U_c at $55\text{ }^{\circ}\text{C}$ operational 60 Hz 0.8...1.1 U_c at $55\text{ }^{\circ}\text{C}$ operational 50 Hz 0.3...0.6 U_c at $55\text{ }^{\circ}\text{C}$ drop-out 50/60 Hz
Inrush power in VA	245 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi\ 0.75$) 50 Hz 245 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi\ 0.75$) 60 Hz
Hold-in power consumption in VA	26 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi\ 0.3$) 50 Hz 26 VA at $20\text{ }^{\circ}\text{C}$ ($\cos\phi\ 0.3$) 60 Hz
Heat dissipation	6...10 W at 50/60 Hz
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	$-5\text{...}60\text{ }^{\circ}\text{C}$
Ambient air temperature for storage	$-60\text{...}80\text{ }^{\circ}\text{C}$
Permissible ambient air temperature around the device	$-40\text{...}70\text{ }^{\circ}\text{C}$ at U_c
Operating altitude	3000 m without derating in temperature
Fire resistance	$850\text{ }^{\circ}\text{C}$ conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor closed 10 Gn for 11 ms Vibrations contactor closed 3 Gn, 5...300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor open 2 Gn, 5...300 Hz
Height	127 mm
Width	85 mm
Depth	130 mm
Product weight	1.61 kg