## Product data sheet Characteristics

### LC1D95G7

# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 120 V AC coil



Main	
Range of product	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor 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 25400 Hz for power circuit <= 690 V DC for power circuit
[le] 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 380400 V AC 50/60 Hz 25 kW at 220230 V AC 50/60 Hz 45 kW at 1000 V AC 50/60 Hz 45 kW at 660690 V AC 50/60 Hz 55 kW at 500 V AC 50/60 Hz 45 kW at 415440 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
[lth] 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
[lcw] rated short-time withstand current	400 A <= 40 °C 1 min power circuit 800 A <= 40 °C 10 s power circuit 135 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 100 A 1 s signalling circuit 1100 A <= 40 °C 1 s power circuit

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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	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	1.3 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 n°14
Product certifications	BV CCC DNV GL GOST RINA LROS
Connections - terminals	Power circuit: connector 2 cable(s) 425 mm² - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 416 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 425 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s)
Tightening torque	Power circuit: 9 N.m - on connector hexagonal 4 mm Power circuit: 9 N.m - on connector - with screwdriv- er 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	620 ms opening 2035 ms closing
Safety reliability level	B10d = 20000000 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 <= 60 °C

### Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc at 55 °C operational 60 Hz 0.81.1 Uc at 55 °C operational 50 Hz 0.30.6 Uc at 55 °C drop-out 50/60 Hz
Inrush power in VA	245 VA at 20 °C (cos φ 0.75) 50 Hz 245 VA at 20 °C (cos φ 0.75) 60 Hz
Hold-in power consumption in VA	26 VA at 20 °C (cos φ 0.3) 50 Hz 26 VA at 20 °C (cos φ 0.3) 60 Hz
Heat dissipation	610 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	25400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non-overlap time	<ul><li>1.5 ms on energisation (between NC and NO contact)</li><li>1.5 ms on de-energisation (between NC and NO contact)</li></ul>
Insulation resistance	> 10 MOhm for signalling circuit

#### Environment

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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °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 closed 10 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz
Height	127 mm
Width	85 mm
Depth	130 mm
Product weight	1.61 kg
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