Product data sheet Characteristics

LC1D95B7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 24 V AC 50/60 Hz coil





Main

Main		
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-4	
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC 25400 Hz for power circuit <= 1000 V AC for power circuit	
[le] rated operational current	125 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 95 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	45 kW at 660690 V AC 50/60 Hz AC-3 45 kW at 415440 V AC 50/60 Hz AC-3 55 kW at 500 V AC 50/60 Hz AC-3 45 kW at 1000 V AC 50/60 Hz AC-3 15 kW at 400 V AC 50/60 Hz AC-4 25 kW at 220230 V AC 50/60 Hz AC-3 45 kW at 380400 V AC 50/60 Hz AC-3	
Motor power HP (UL / CSA)	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 7.5 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 230/240 V AC 50/60 Hz for 1 phase motors 25 hp at 230/240 V AC 50/60 Hz for 3 phases motors 60 hp at 460/480 V AC 50/60 Hz for 3 phases motors 60 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	



Overvoltage category	Ш	
[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 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	1100 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	1100 A <= 40 °C 1 s power circuit 135 A <= 40 °C 10 min power circuit 400 A <= 40 °C 1 min power circuit 800 A <= 40 °C 10 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit	
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 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	1.2 Mcycles 95 A AC-3 at Ue <= 440 V 1.3 Mcycles 125 A AC-1 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	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	BV CCC DNV GL GOST LROS (Lloyds register of shipping) RINA	
Connections - terminals	Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 2 cable(s) 425 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: flexible - without cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 2 cable(s) 450 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 2 cable(s) 416 mm ² - cable stiffness: flexible - with cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 425 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: solid - without cable end Power circuit : connector 1 cable(s) 450 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 425 mm ² - cable stiffness: solid - without cable end Power circuit : connector 2 cable(s) 425 mm ² - cable stiffness: solid - without cable end	
Tightening torque	Power circuit : 9 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit : 9 N.m - on connector hexagonal 4 mm Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit : 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2	
Operating time	2035 ms closing 620 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	4 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

	MARINE CE 2012 Contraction of the	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.851.1 Uc operational at 55 °C, AC 60 Hz	
	0.30.6 Uc drop-out at 55 °C, AC 50/60 Hz	
	0.81.1 Uc operational at 55 °C, AC 50 Hz	
Inrush power in VA	245 VA at 20 °C (cos φ 0.75) 60 Hz	
	245 VA at 20 °C (cos φ 0.75) 50 Hz	
Hold-in power consumption in VA	26 VA at 20 °C (cos φ 0.3) 60 Hz	
	26 VA at 20 °C (cos φ 0.3) 50 Hz	
Heat dissipation	610 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	25400 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	-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	Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5300 Hz Shocks contactor closed 10 Gn for 11 ms	
Height	127 mm	
Width	85 mm	
Depth	130 mm	
Product weight	1.61 kg	

Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0701 - 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 Profile	
Product end of life instructions	Need no specific recycling operations	

Contractual warranty

Warranty period

18 months

Product data sheet Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D80	D95
а		85	85
b1	with LA4 D•2	135	135
	with LA4 DB3 or LAD 4BB3	135	-
	with LA4 DF, DT	142	142
	with LA4 DM, DW, DL	150	150
с	without cover or add-on blocks	125	125
	with cover, without add-on blocks	130	130
c1	with LAD N (1 contact)	150	150
	with LAD N or C (2 or 4 contacts)	158	158
c2	with LA6 DK10, LAD 6DK	170	170
c3	with LAD T, R, S	178	178
	with LAD T, R, S and sealing cover	182	182

Wiring



LC1D95B7