Product data sheet Characteristics

LC1D95U7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 240 V AC coil



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 cir- cuit 125 A (<= 60 °C) at <= 440 V AC AC-1 for power cir- cuit	
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 Auxiliary contact com- position	240 V AC 50/60 Hz 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 ca- pacity	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 capac- ity	1100 A at 440 V for power circuit conforming to IEC 60947	
[Icw] 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
Associated luse fatting	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	1000 V for power circuit conforming to IEC
voltage	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 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: solid - without cable end Power circuit: connector 2 cable(s) 416 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: flexible - with cable end Power circuit: connector 2 cable(s) 425 mm ² - ca- ble stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm ² - ca- ble stiffness: flexible - without cable end Power circuit: sornector 1 cable(s) 450 mm ² - ca- ble stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 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) 12.5 mm ² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end
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			
Complementary Coil technology	Without built-in suppress	or 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	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

IP2x front face conforming to IEC 60529	
TH conforming to IEC 60068-2-30	
3	
for operation -560 °C	
-6080 °C	
-4070 °C at Uc	
3000 m without derating in temperature	
850 °C conforming to IEC 60695-2-1	
V1 conforming to UL 94	
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	
127 mm	
85 mm	
130 mm	
1.61 kg	