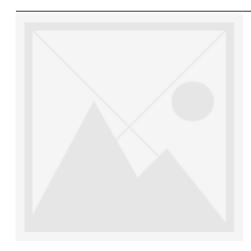
Product datasheet Characteristics

LC1D95BD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 95 A - 24 V DC standard coil



Main

Man		
Range of product	TeSys D	
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	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 1000 V AC for power circuit <= 300 V DC 25400 Hz for power circuit	7
[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	55 kW at 500 V AC 50/60 Hz 45 kW at 415440 V AC 50/60 Hz 25 kW at 220230 V AC 50/60 Hz 45 kW at 380400 V AC 50/60 Hz 45 kW at 1000 V AC 50/60 Hz 45 kW at 660690 V AC 50/60 Hz	the stirted for and is properties.
Motor power hp	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 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 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	Diodesinore. This observed in the part of
Control circuit type	DC standard	
Control circuit voltage	24 V DC	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	F
Overvoltage category	III	;

[Ith] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 125 A at <= 60 °C for power 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	800 A <= 40 °C 10 s power circuit 100 A 1 s signalling circuit 135 A <= 40 °C 10 min power circuit 400 A <= 40 °C 1 min power circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 1100 A <= 40 °C 1 s power circuit
Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 160 A gG at <= 690 V coordination type 2 for power circuit
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 UL 600 V for power circuit certifications CSA 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications UL
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
Protective cover	With
Mounting support	Rail Plate
Standards	EN 60947-4-1 UL 508 EN 60947-5-1 IEC 60947-5-1 IEC 60947-4-1 CSA C22.2 No 14
Product certifications	BV DNV CCC GOST LROS GL RINA
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without 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) 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 Power circuit: connector 2 cable(s) 425 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 425 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: solid - without cable end Power circuit: connector 1 cable(s) 450 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) 450 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 450 mm² - 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 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	95130 ms closing 2035 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
Operating rate	ood cyan at 1 oo o

Complementary

Without built-in suppressor module
0.10.3 Uc drop-out at 55 °C, DC 0.851.1 Uc operational at 55 °C, DC
75 ms
22 W at 20 °C
22 W at 20 °C
Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1
25400 Hz
5 mA for signalling circuit
17 V for signalling circuit
1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
> 10 MOhm for signalling circuit
M9
LC1D

Environment

Littiioiit	
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	Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor closed 10 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms Vibrations contactor closed 3 Gn, 5300 Hz
Height	127 mm
Width	85 mm
Depth	186 mm
Product weight	2.61 kg

Contractual warranty

Contractual warranty		
Warranty period	18 months	

3