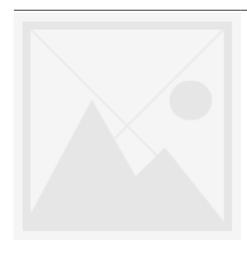
Product datasheet Characteristics

LC1D18B7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 24 V AC coil



Main

mani		
Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-1	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 18 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	9 kW at 415440 V AC 50/60 Hz 10 kW at 660690 V AC 50/60 Hz 10 kW at 500 V AC 50/60 Hz 7.5 kW at 380400 V AC 50/60 Hz 4 kW at 220230 V AC 50/60 Hz	الماق من عابر الإيادة والماق الماق ا
Motor power hp	5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 10 hp at 460/480 V AC 50/60 Hz for 3 phases motors 3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 1 hp at 115 V AC 50/60 Hz for 1 phase motors 15 hp at 575/600 V AC 50/60 Hz for 3 phases motors	and the documentation is not intended as a substitute for and is not to be used for determining suitshill or reliability or reliability or reliability.
Control circuit type	AC 50/60 Hz	
Control circuit voltage	24 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	

[lth] conventional free air thermal	32 A at <= 60 °C for power circuit	
current	10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	300 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	300 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	145 A <= 40 °C 10 s power circuit 120 A 500 ms signalling circuit 40 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit 84 A <= 40 °C 1 min power circuit 140 A 100 ms signalling circuit 240 A <= 40 °C 1 s power circuit	
Associated fuse rating	50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1	
Average impedance	2.5 mOhm at 50 Hz - Ith 32 A for power circuit	
[Ui] rated insulation voltage	600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications CSA 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 600 V for signalling circuit certifications UL	
Electrical durability	1 Mcycles 32 A AC-1 at Ue <= 440 V 1.65 Mcycles 18 A AC-3 at Ue <= 440 V	
Power dissipation per pole	2.5 W AC-1 0.8 W AC-3	
Protective cover	With	
Mounting support	Rail Plate	
Standards	IEC 60947-5-1 UL 508 EN 60947-5-1 IEC 60947-4-1 EN 60947-4-1 CSA C22.2 No 14	
Product certifications	CCC DNV GOST RINA LROS BV CSA UL GL	
Connections - terminals	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: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 16 mm² - cable stiffness: solid - without cable end	
Tightening torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
Operating time	1222 ms closing	

4...19 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	15 Mcycles
Operating rate	3600 cyc/h at <= 60 °C

Complementary

Without built-in suppressor module
0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz
70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz
7 VA at 20 °C (cos φ 0.3) 50 Hz 7.5 VA at 20 °C (cos φ 0.3) 60 Hz
23 W at 50/60 Hz
Type mirror contact (1 NC) conforming to IEC 60947-4-1 Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1
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
M2
LC1D

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	-2060 °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 closed 4 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 10 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz
Height	77 mm
Width	45 mm
Depth	86 mm
Product weight	0.33 kg

Offer Sustainability

Sustainable offer status	Green Premium product		
RoHS (date code: YYWW)	Compliant - since 0627 - 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		

Product end of life instructions	Available Find of life manual	
Contractual warranty		
Warranty period	18 months	

