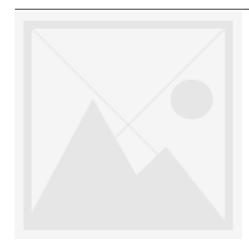
# Product datasheet Characteristics

# LC1D32BD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 24 V DC coil



#### Main

Range of product	TeSys D	-s for s
Range	TeSys	— oducts
Product name	TeSys D	Se pro
Product or component type	Contactor	the:
Device short name	LC1D	— oility
Device short name	LC1D32	reliat
Contactor application	Motor control Resistive load	is not to be used for determining suitability or reliability of these products for
Utilisation category	AC-1 AC-3	ining sui
Poles description	3P	eterm
Pole contact composition	3 NO	for de
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit	be nsed
[le] rated operational current	50 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 32 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	15 kW at 415440 V AC 50/60 Hz 15 kW at 380400 V AC 50/60 Hz 18.5 kW at 660690 V AC 50/60 Hz 18.5 kW at 500 V AC 50/60 Hz 7.5 kW at 220230 V AC 50/60 Hz	a substitute for and
Motor power hp	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors	sclaimer: This documentation is not intended as
Control circuit type	DC standard	ments
Control circuit voltage	24 V DC	—       
Auxiliary contact composition	1 NO + 1 NC	This
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	ner:

Overvoltage category	III	
[lth] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 50 A at <= 60 °C for power circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	138 A <= 40 °C 1 min power circuit 260 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 430 A <= 40 °C 1 s power circuit 60 A <= 40 °C 10 min power circuit	
Associated fuse rating	63 A gG at <= 690 V coordination type 2 for power circuit 63 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	2 mOhm at 50 Hz - Ith 50 A for power circuit	
[Ui] rated insulation voltage	600 V for signalling circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 600 V for power circuit certifications UL 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1	
Electrical durability	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V	
Power dissipation per pole	5 W AC-1 2 W AC-3	
Protective cover	With	
Mounting support	Rail Plate	
Standards	EN 60947-5-1 UL 508 IEC 60947-5-1 CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1	
Product certifications	CSA GL GOST CCC DNV UL LROS RINA BV	
Connections - terminals	Power circuit : screw clamp terminals 2 cable(s) 2.510 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 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - 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) 1.510 mm² - cable stiffness: solid - without 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: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end	
Tightening torque	Control 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 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2	

	Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver flat $\emptyset$ 6 mm	
Operating time	53.5572.45 ms closing 1624 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	30 Mcycles	
Operating rate	3600 cyc/h at <= 60 °C	

## Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.71.25 Uc operational at 60 °C, DC 0.10.25 Uc drop-out at 60 °C, DC	
Time constant	28 ms	
Inrush power in W	5.4 W at 20 °C	
Hold-in power consumption in W	5.4 W at 20 °C	
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	
Contact compatibility	M4	
Compatibility code	LC1D	

#### Environment

IP2x front face conforming to IEC 60529 TH conforming to IEC 60068-2-30
TH conforming to IEC 60068-2-30
3
-2060 °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
Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
85 mm
45 mm
101 mm
0.535 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  In the second of th	
Contractual warranty		
Warranty period	18 months	

