# Product datasheet Characteristics

# LC1D32JD

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 12 V DC coil



#### Main

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Range of product	TeSys D	Ç
Range	TeSys	or o
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Device short name	LC1D32	<u> </u>
Contactor application	Motor control Resistive load	is not to be used for determining suitability or reliability of these
Utilisation category	AC-3 AC-1	inio suit
Poles description	3P	e e e e e e e e e e e e e e e e e e e
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit	- Person - P
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 50 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	
Motor power kW	15 kW at 380400 V AC 50/60 Hz 7.5 kW at 220230 V AC 50/60 Hz 18.5 kW at 500 V AC 50/60 Hz 18.5 kW at 660690 V AC 50/60 Hz 15 kW at 415440 V AC 50/60 Hz	substitute for and
Motor power hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors	dainer: This documentation is not intended as.
Control circuit type	DC standard	
Control circuit voltage	12 V DC	
Auxiliary contact composition	1 NO + 1 NC	This side
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	in i
		<u>c</u>

Overvoltage category		
[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	250 A DC for signalling circuit conforming to IEC 60947-5-1 140 A AC 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	100 A 1 s signalling circuit 138 A <= 40 °C 1 min power circuit 260 A <= 40 °C 10 s power circuit 60 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 120 A 500 ms signalling circuit 430 A <= 40 °C 1 s power circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2 mOhm at 50 Hz - Ith 50 A for power circuit	
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications CSA 600 V for power circuit certifications CSA 600 V for signalling circuit certifications UL 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1	
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 IEC 60947-4-1 IEC 60947-5-1 EN 60947-4-1 UL 508 CSA C22.2 No 14	
Product certifications	LROS GL UL CSA DNV RINA BV GOST CCC	
Connections - terminals	Power circuit : screw clamp terminals 1 cable(s) 2.510 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) 110 mm² - cable stiffness: flexible - with 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) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 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 - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 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 Ø 6 mm	

Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
1624 ms opening 53.5572.45 ms closing
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

<u> </u>		
Com	biem	entary

Operating time

Operating rate

Safety reliability level

Mechanical durability

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	

30 Mcycles

3600 cyc/h at <= 60 °C

### Environment

IP2x front face conforming to IEC 60529  TH conforming to IEC 60068-2-30  3  -2060 °C
3
20 60 °C
-2000 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 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz Vibrations contactor open 2 Gn, 5300 Hz 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  Find of life manual	
Contractual warranty		
Warranty period	18 months	

