# Product datasheet Characteristics

## LC1DT32BD

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 24 V DC standard coil



#### Main

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Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load	
Utilisation category	AC-1	
Poles description	4P	
Pole contact composition	4 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	
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	-
Overvoltage category	III	
[lth] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 32 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	40 A <= 40 °C 10 min power circuit 140 A 100 ms signalling circuit 145 A <= 40 °C 10 s power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 240 A <= 40 °C 1 s power circuit 84 A <= 40 °C 1 min power circuit	
Associated fuse rating	35 A gG at <= 690 V coordination type 2 for power circuit	

	50 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	2.5 mOhm at 50 Hz - Ith 32 A for power circuit	
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 600 V for signalling circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications UL	
Electrical durability	1 Mcycles 32 A AC-1 at Ue <= 440 V	
Power dissipation per pole	2.5 W AC-1	
Protective cover	With	
Mounting support	Plate Rail	
Standards	EN 60947-4-1 IEC 60947-5-1 IEC 60947-4-1 CSA C22.2 No 14 UL 508 EN 60947-5-1	
Product certifications	RINA GOST DNV CCC BV UL GL LROS CSA	
Connections - terminals	Power circuit: connector 1 cable(s) 2.516 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) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 2.516 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 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: connector 1 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Power circuit: connector 1 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 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: flexible - without cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on connector - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
Operating time	53.5572.45 ms closing 1624 ms opening	
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	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 de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm for signalling circuit
Contact compatibility	M7
Compatibility code	LC1D

#### Environment

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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 closed 4 Gn, 5300 Hz Shocks contactor open 8 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz
Height	91 mm
Width	45 mm
Depth	107 mm
Product weight	0.425 kg

### Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0709 - 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	
	End of life manual	
Product end of life instructions	Available	

#### Contractual warranty

Warranty period	18 months