Product datasheet Characteristics

LC1DT32B7

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 24 V AC 50/60 Hz coil



Main

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Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	olishiiku or olishiiku oʻd tha oʻd shakiila oʻd sha
Product or component type	Contactor	
Device short name	LC1D	(} :-
Contactor application	Resistive load	<u></u>
Utilisation category	AC-1	<u> </u>
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	6 d for details
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	
Control circuit type	AC 50/60 Hz	ğ
Control circuit voltage	24 V AC 50/60 Hz	<u>.</u>
Auxiliary contact composition	1 NO + 1 NC	<u> </u>
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	700
Overvoltage category	III	<u>.</u>
[lth] conventional free air thermal current	32 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	300 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	40 20 20 0
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947	ţ
[lcw] rated short-time withstand current	100 A 1 s signalling circuit 145 A <= 40 °C 10 s power circuit 84 A <= 40 °C 1 min power circuit 240 A <= 40 °C 1 s power circuit 140 A 100 ms signalling circuit 40 A <= 40 °C 10 min power circuit 120 A 500 ms signalling circuit	Disclaimer This documentation is mot intended as a suffering for and
Associated fuse rating	35 A gG at <= 690 V coordination type 2 for power circuit	- i

	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	2.5 mOhm at 50 Hz - Ith 32 A for power circuit 600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications CSA	
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 EN 60947-5-1 UL 508	
Product certifications	UL RINA CCC DNV GL LROS CSA GOST BV	
Connections - terminals	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 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 2.516 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 2.510 mm² - cable stiffness: flexible - with cable end Power 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 - with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: connector 1 cable(s) 2.516 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - 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: solid - without cable end	
Tightening torque	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 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	
Operating time	419 ms opening 1222 ms closing	
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	15 Mcycles	
Operating rate	3600 cyc/h at <= 60 °C	
Complementary		
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.851.1 Uc operational at 60 °C, AC 60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz	
Inrush power in VA	70 VA at 20 °C (cos φ 0.75) 50 Hz 70 VA at 20 °C (cos φ 0.75) 60 Hz	
Hold-in power consumption in VA	7 VA at 20 °C (cos φ 0.3) 50 Hz 7.5 VA at 20 °C (cos φ 0.3) 60 Hz	
Heat dissipation	23 W at 50/60 Hz	
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1	



Type mirror contact (1 NC) conforming to IEC 60947-4-1

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	M6
Compatibility code	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	-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	Shocks contactor open 8 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz
Height	91 mm
Width	45 mm
Depth	99 mm
Product weight	0.425 kg

Contractual warranty

Warranty period	18 months	

Schneider Electric