Product datasheet Characteristics

LC1DT32F7

TeSys D contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 110 V AC 50/60 Hz 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	<u></u>
Utilisation category	AC-1	
Poles description	4P	suitability or reliability of these products for
Pole contact composition	4 NO	Ø
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit	is not to be used for determining
[le] rated operational current	32 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit	ğ
Control circuit type	AC 50/60 Hz	<u> </u>
Control circuit voltage	110 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	<u> </u>
Overvoltage category	III	
[Ith] conventional free air thermal current	10 A at <= 60 °C for signalling circuit 32 A at <= 60 °C for power circuit	o competition
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	, o o o o o o o o o o o o o o o o o o o
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	84 A <= 40 °C 1 min power circuit 140 A 100 ms signalling circuit 240 A <= 40 °C 1 s power circuit 120 A 500 ms signalling circuit 145 A <= 40 °C 10 s power circuit 40 A <= 40 °C 10 min power circuit 100 A 1 s signalling circuit	Disclaimer: This documentation is not intended as a substitute for and
Associated fuse rating	50 A gG at <= 690 V coordination type 1 for power circuit	

	10 A gG for signalling circuit conforming to IEC 60947-5-1 35 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	2.5 mOhm at 50 Hz - Ith 32 A for power circuit	
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1	
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	Rail Plate	
Standards	IEC 60947-4-1 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 CSA C22.2 No 14 UL 508	
Product certifications	RINA BV LROS GOST UL DNV GL CSA CCC	
Connections - terminals	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 - with cable end Power circuit: connector 1 cable(s) 2.510 mm² - cable stiffness: flexible - with 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: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: connector 2 cable(s) 2.510 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: connector 2 cable(s) 2.510 mm² - cable stiffness: flexible - with 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: flexible - with 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 Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end	
Tightening torque	Power circuit: 1.7 N.m - on connector - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on connector - with screwdriver flat Ø 6 mm 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	
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	0.81.1 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	
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	7.5 VA at 20 °C (cos φ 0.3) 60 Hz 7 VA at 20 °C (cos φ 0.3) 50 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 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	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	Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 8 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor closed 15 Gn for 11 ms
Height	91 mm
Width	45 mm
Depth	99 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	
	Product environmental	
Product end of life instructions	Available	
	🚰 End of life manual	

Contractual warranty

Contractadi Warranty		
Warranty period	18 months	