Product datasheet Characteristics

LC1D32U7 TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 240 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	Motor control Resistive load	
Utilisation category	AC-1 AC-3	
Poles description	3P	
Pole contact composition	3 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-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 15 kW at 415440 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	
Motor power hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 10 hp at 230/240 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	
Control circuit type	AC 50/60 Hz	
Control circuit voltage	240 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947	
Overvoltage category		



[Ith] conventional free air thermal	50 A at <= 60 °C for power circuit	
current	10 A at <= 60 °C for signalling circuit	
Irms rated making capacity	250 A DC for signalling circuit conforming to IEC 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1	
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	120 A 500 ms signalling circuit 430 A <= 40 °C 1 s power circuit 260 A <= 40 °C 10 s power circuit 100 A 1 s signalling circuit 140 A 100 ms signalling circuit 138 A <= 40 °C 1 min power circuit 60 A <= 40 °C 10 min power circuit	
Associated fuse rating	63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 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	690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications UL 600 V for signalling circuit certifications CSA 600 V for power circuit certifications CSA 690 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL	
Electrical durability	1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.65 Mcycles 32 A AC-3 at Ue <= 440 V	
Power dissipation per pole	2 W AC-3 5 W AC-1	
Protective cover	With	
Mounting support	Plate Rail	
Standards	IEC 60947-4-1 EN 60947-5-1 EN 60947-4-1 UL 508 CSA C22.2 No 14 IEC 60947-5-1	
Product certifications	RINA CCC DNV GL GOST CSA BV LROS UL	
Connections - terminals	Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 110 mm ² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 2 cable(s) 1.56 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 12.5 mm ² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.510 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 14 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 1 cable(s) 1.510 mm ² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable(s) 2.510 mm ² - cable stiffness: solid - without 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 \emptyset 6 mm Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm Power circuit : 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2	



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

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 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	M2	
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
Shocks contactor closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 8 Gn for 11 ms
85 mm
45 mm
92 mm
0.375 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

18 months

Contractual warranty

Warranty period

Schneider Electric