Product datasheet Characteristics

LC1D09U7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 240 V AC coil



Main

		7
Range of product	TeSys D	
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-3	
Poles description	3P	
Pole contact composition	3 NO	
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit <= 300 V DC for power circuit	7
[le] rated operational current	25 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 9 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	5.5 kW at 660690 V AC 50/60 Hz 4 kW at 415440 V AC 50/60 Hz 2.2 kW at 220230 V AC 50/60 Hz 4 kW at 380400 V AC 50/60 Hz 5.5 kW at 500 V AC 50/60 Hz	orbetti its for ord for description
Motor power hp	2 hp at 200/208 V AC 50/60 Hz for 3 phases motors 0.5 hp at 115 V AC 50/60 Hz for 1 phase motors 2 hp at 230/240 V AC 50/60 Hz for 3 phases motors 1 hp at 230/240 V AC 50/60 Hz for 1 phase motors 5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors	יויי לימי ליני לכני לכני לכני לכני לכני לכני לכנ
Control circuit type	AC 50/60 Hz	
Control circuit voltage	240 V AC 50/60 Hz	
Auxiliary contact composition	1 NO + 1 NC	doings. This does no added
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947	
Overvoltage category	III	

140 A AC for signaling circuit conforming to IEC 00947-5-1 250 A DC for signaling circuit conforming to IEC 00947-7 250 A 14 40 V for power circuit conforming to IEC 00947 250 A 14 40 V for power circuit conforming to IEC 00947 [Cov] rated short-time withstand current 100 A 1 s signaling circuit 100 A 100 ms signaling circuit 100 Ms	[Ith] conventional free air thermal	25 A at <= 60 °C for power circuit
250 A st 440 ½ for power circuit conforming to IEC 69947 [Cw] rated short-time withstand current 100 A 1 s signaling circuit 30 A 4 s 40 ° C 1 s power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 40 ° C 1 s mip power circuit 110 A 5 s 60 m s signalling circuit 110 A 5 s 60 m s signalling circuit 110 A 5 s 60 ° C 50 ° D conforming to IEC 60947-5-1 25 A 5 d s 4 s 50 ° C 500 ° C conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-4-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-5-1 600 ° V for signalling circuit conforming to IEC 60947-61 600 ° V for signalling circuit conf	Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1
30 A <= 40 °C 10 min power circuit 210 A <= 40 °C 1 min power circuit 81 A <= 40 °C 1 min power circuit 140 A 100 ms signalling circuit control (100 ms signalling circuit conforming to IEC 80947-5-1 120 A 9 °C 1 min power circuit 102 A <= 40 °C 1 min power circuit 103 A <= 40 °C 1 min power circuit 103 A <= 40 °C 1 min power circuit 103 A 9 °C 1 min power circuit 104 A 9 °C 1 min power circuit 105 A 9 °C 1 min power circuit 105 A 9 °C 1 min power circuit 105 A 9 °C 1 min power circuit 106 A 9 °C 1 min power circuit 107 A 9 °C 1 min power circuit 108 °C 1 min power circuit 108 °C 1 min power circuit 108 °C 1 min power circuit 109 °C 1 min power circuit 109 °C 1 min power circuit 109 °C 1 min power circuit conforming to IEC 80947-4-1 100 °C 1 min power circuit conforming to IEC 60947-4-1 100 °C 1 min power circuit conforming to IEC 60947-4-1 100 °C 1 min power circuit conforming to IEC 60947-4-1 100 °C 1 min power circuit conforming to IEC 60947-1 100 °C 1 min power circuit	Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
10 Å gG for signalling circuit conforming to IÉC 60947-5-1 25 Å gG at ≤ 890 V cordination type 1 for power circuit Average impedance 2.5 mOhm at 50 Hz - Ith 25 Å for power circuit 690 V for power Circuit conforming to IEC 60947-4-1 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications UL 600 V for signalling circuit certifications US 600 V for signalling circuit certifications CSA 600 V for Signalling certifications CSA 600 V for Signalling circuit certifications CSA	[lcw] rated short-time withstand current	30 A <= 40 °C 10 min power circuit 210 A <= 40 °C 1 s power circuit 61 A <= 40 °C 1 min power circuit 140 A 100 ms signalling circuit 105 A <= 40 °C 10 s power circuit
Sell V for power circuit conforming to IEC 80947-4-1 800 V for signalling circuit certifications UL 800 V for signalling circuit certifications CSA 800 V for power disability for signalling circuit certifications CSA 800 V for signalling circuit certifications 800 V for power disability for signalling circuit certifications 800 V for power disability for signalling circuit certifications 800 V for power circuit certifications 900 V for power power power power circuit certifications 900 V for power	Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
600 V for signalling circuit certifications UL 600 V for power circuit certifications UL 600 V for power circuit certifications US 600 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA 600 V for signalling circuit certification CSA 600 V for Cartification Circuit certification	Average impedance	2.5 mOhm at 50 Hz - Ith 25 A for power circuit
Power dissipation per pole 0.2 W AC-3 1.56 W AC-1 Protective cover With Mounting support Rail Plate Standards IEC 60947-5-1 EN 60947-5-1 EN 60947-5-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 CSA C22.2 No 14 UL 508 Product certifications CCC LROS GL RINA BV DNV CSA UL GOST Connections - terminals 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) 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 - with 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: 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: flexible - with cable end Control circuit : screw clamp terminals 2 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 Control circuit : screw clamp terminals 2 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 Control circuit : screw clamp terminals 2 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 Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : scre	[Ui] rated insulation voltage	600 V for signalling circuit certifications UL 600 V for power circuit certifications UL 690 V for signalling circuit conforming to IEC 60947-1 600 V for power circuit certifications CSA
Protective cover With Mounting support Rail Plate Standards IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 CSA C222 No 14 UL 508 Product certifications CCC LROS GL RINA BY CSA UL GOST Connections - terminals 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) 14 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 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 - with 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) 12 5 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: flexible - with cable end Control 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 - without cable end Control circuit : screw clamp terminals 2 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 Control circuit : screw clamp terminals 2 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 Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness solid - witho	Electrical durability	
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	Tightening torque	Control circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm Power circuit : 1.7 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm
	Operating time	· ·

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) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 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	M2
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	-2060 °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 closed 15 Gn for 11 ms Vibrations contactor open 2 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms Vibrations contactor closed 4 Gn, 5300 Hz
Height	77 mm
Width	45 mm
Depth	86 mm
Product weight	0.32 kg

Offer Sustainability

Oct 14, 2016

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	



Contractual warranty

Warranty period 18 months

