

Product datasheet Characteristics

LC1D09E7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 48 V AC coil





Main

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 AC-4
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
[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	2.2 kW at 400 V AC 50/60 Hz AC-4 2.2 kW at 220230 V AC 50/60 Hz AC-3 4 kW at 380400 V AC 50/60 Hz AC-3 5.5 kW at 500 V AC 50/60 Hz AC-3 5.5 kW at 660690 V AC 50/60 Hz AC-3 4 kW at 415440 V AC 50/60 Hz AC-3
Motor power hp	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 200/208 V AC 50/60 Hz for 3 phases motors 2 hp at 230/240 V AC 50/60 Hz for 3 phases 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 0.33 hp at 115 V AC 50/60 Hz for 1 phase motors
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	48 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	25 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit
Irms rated making capacity	250 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	250 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	105 A <= 40 °C 10 s power circuit 210 A <= 40 °C 1 s power circuit 30 A <= 40 °C 10 min power circuit 61 A <= 40 °C 1 min power circuit

circuit 25 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 mChm at 50 Hz - 1th 25 A for power circuit 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for power circuit certifications UL 690 V for signalling circuit certifications UL 690 V for signalling circuit certifications CSA 600 V for signalling circuit certifications CSA 600 V for signalling circuit certifications UL 690 V for signalling circuit certifications UL 690 V for signalling circuit certifications UL 69047-4 1 600 V for signalling circuit certifications UL 69047-4 1 69047-4		
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12.5 mm² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable en Control circuit : screw clamp terminals 1 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 1 cable(s) 14 mm² - cable stiffness: flexible - with cable en 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 Power circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - without cable end Power circuit : screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end	Product certifications	CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA
	Connections - terminals	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) 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 1 cable(s) 14 mm² - cable stiffness: flexible - with 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 Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) 12.5 mm² - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 cable(s)
	Tightening torque	end Power circuit: 1.7 N.m - on screw clamp terminals



	- with screwdriver flat Ø 6 mm Power 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	419 ms opening 1222 ms closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	15 Mcycles
Operating rate	3600 cvc/h at <= 60 °C

Complementary

Without built-in suppressor module	
0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz	
70 VA at 20 °C (cos φ 0.75) 60 Hz 70 VA at 20 °C (cos φ 0.75) 50 Hz	
23 W at 50/60 Hz	
Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1	
5 mA for signalling circuit	
17 V for signalling circuit	
1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact	
> 10 MOhm for signalling circuit	

Environment

IP degree of protection	IP20 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 open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
height	77 mm
width	45 mm
depth	86 mm
product weight	0.32 kg

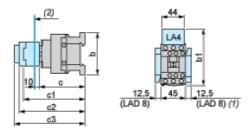
Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0627 - Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Available	



18 months

Dimensions



- (1) Including LAD 4BB
- (2) Minimum electrical clearance

	LC1	D09D18	D093D123	D099D129
b	without add-on blocks	77	99	80
b1	with LAD 4BB	94	107	95.5
	with LA4 D●2	110 ⁽¹⁾	123 ⁽¹⁾	111.5 ⁽¹⁾
	with LA4 DF, DT	119 ⁽¹⁾	132 ⁽¹⁾	120.5 ⁽¹⁾
	with LA4 DW, DL	126 ⁽¹⁾	139 ⁽¹⁾	127.5 ⁽¹⁾
С	without cover or add-on blocks	84	84	84
	with cover, without add-on blocks	86	86	86
с1	with LAD N or C (2 or 4 contacts)	117	117	117
c2	with LA6 DK10, LAD 6K10	129	129	129
с3	with LAD T, R, S	137	137	137
	with LAD T, R, S and sealing cover	141	141	141
(1)	Including LAD 4BB.			

Wiring



Our Proposal - Type 1 : Circuit Breaker + Contactor for Motor Power from 0,06 to 4 kW and 415 VAC

Motor Power (kW)	lcu (kA)	Breaker	Contactor
0.06	> 100	GV2ME02	LC1D09E7
0.09	> 100		

		GV2ME03	LC1D09E7
0,12 to 0,18	> 100	GV2ME04	LC1D09E7
0,25 to 0,37	> 100	GV2ME05	LC1D09E7
0.55	> 100	GV2ME06	LC1D09E7
0.75	> 100	GV2ME07	LC1D09E7
1,1 to 1,5	> 100	GV2ME08	LC1D09E7
2.2	> 100	GV2ME10	LC1D09E7
3 to 4	> 100	GV2ME14	LC1D09E7

Non contractual pictures. Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.