Product data sheet Characteristics

LC1D09M7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 220 V AC coil



Main

Main		
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-4 AC-3 AC-1	
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	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	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	220 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	
[lth] conventional free air thermal current	25 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit	i
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		
250 A at 440 V for power circuit conforming to IEC 60947		
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 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit		
20 A gG at <= 690 V coordination type 2 for power 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		
2.5 mOhm at 50 Hz - Ith 25 A for power circuit		
600 V for power circuit certifications CSA 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 signalling circuit certifications CSA 600 V for signalling circuit certifications UL		
0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V		
0.2 W AC-3 1.56 W AC-1		
With		
Rail Plate		
CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508		
CSA GL LROS (Lloyds register of shipping) BV RINA GOST DNV CCC UL		
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 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: 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 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) 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 2 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		
Power 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 Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2		
419 ms opening 1222 ms closing		
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		

Onerating rate	2600 ava/b at -= 60 °C
Operating rate	3600 cvc/h at <= 60 °C
-	

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	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
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	7.5 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 energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact
Insulation resistance	> 10 MOhm for signalling circuit
Power range	1.12 kW 200240 V 3 phases 2.23 kW 380440 V 3 phases 46 kW 380440 V 3 phases 46 kW 480500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	220 V AC standard

Environment

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	
	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	



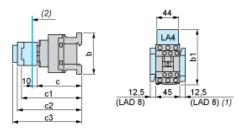
Contractual warranty

Warranty period 18 months

Product data sheet **Dimensions Drawings**

LC1D09M7

Dimensions



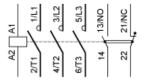
- (1) Including LAD 4BB(2) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b	without add-on blocks	77	99	80
b1	with LAD 4BB	94	107	95.5
with LA4 D	• 2 10 ⁽¹⁾	123 ⁽¹⁾	111.5 ⁽¹⁾	
with LA4 D	F1 (1917 ¹⁾	132 ⁽¹⁾	120.5 ⁽¹⁾	
with LA4 D	W ₂ 8 ^U	139 ⁽¹⁾	127.5 ⁽¹⁾	
С	without cover or add-on blocks	84	84	84
with cover,	ზშhout add-on blocks	86	86	
c1	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	, R4,1S and sealing cover	141	141	
(1)	Including LAD 4BB.			

Product data sheet Connections and Schema

LC1D09M7

Wiring



LC1D09M7

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

Motor power	ICU	Breaker	Contactor (*)
(kW)	(kA)		
0.06	> 100	GV2ME02	LC1D09M7
0.09	> 100	-	201300111
0.09	7 100		
		GV2ME03	LC1D09M7
0,12 to 0,18	> 100		
		GV2ME04	LC1D09M7
0,25 to 0,37	> 100		
		GV2ME05	LC1D09M7
0.55	> 100		
		GV2ME06	LC1D09M7
0.75	> 100		
		GV2ME07	LC1D09M7
1,1 to 1,5	> 100		
		GV2ME08	LC1D09M7
2.2	> 100		
		GV2ME10	LC1D09M7
3 to 4	> 100		
		GV2ME14	LC1D09M7

Non contractual pictures.

Type 1 coordination requires that in a short-cirmust not be able to resume operation without r	cuit condition, the contactor repair or the replacement of	r or starter must not present f parts.	t any danger to personnel c	or installations and