LC1D09P7

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 9A, 230V AC 50/60Hz coil, screw clamp terminals





Main

Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3 AC-3e
Dalas dassistina	2D
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC
[Ue] rated operational	Power circuit: <= 690 V AC 25400 Hz

Complementary

Motor power kW	2.2 KW at 220230 V AC 50/60 Hz (AC-3)	
·	4 KW at 380400 V AC 50/60 Hz (AC-3)	
	4 KW at 415440 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)	
	2.2 KW at 400 V AC 50/60 Hz (AC-4)	
	2.2 KW at 220230 V AC 50/60 Hz (AC-3e)	
	4 KW at 380400 V AC 50/60 Hz (AC-3e)	
	4 KW at 415440 V AC 50/60 Hz (AC-3e)	
	5.5 KW at 500 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
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	
Compatibility code	LC1D	
Pole contact composition	3 NO	
Protective cover	With	
[lth] 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	

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[Icw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit		
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit		
Power dissipation per pole	1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e		
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified		
Overvoltage category	III		
Pollution degree	3		
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947		
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		
Electrical durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V		
Control circuit type	AC at 50/60 Hz standard		
Coil technology	Without built-in suppressor module		
Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz		
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)		
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)		
Heat dissipation	23 W at 50/60 Hz		
Operating time	1222 ms closing 419 ms opening		
Maximum operating rate	3600 cyc/h 60 °C		
Connections - terminals	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end		

Tightening torque	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		
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No		
	2		
	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2		
Auxiliary contact composition	1 NO + 1 NC		
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 voltage	17 V for signalling circuit		
Minimum switching current	5 mA for signalling circuit		
Insulation resistance	> 10 MOhm 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		
Mounting support	Rail		
	Plate		

Environment

Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	IEC 60335-1
Product certifications	GOST[RETURN]BV[RETURN]LROS (Lloyds register of shipping) [RETURN]DNV[RETURN]CSA[RETURN]RINA[RETURN]CCC[RETURN]UL[RETURN]GL[RET
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Climatic withstand	Conforming to IACS E10 exposure to damp heat
	Conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the	-4060 °C
device	6070 °C with derating
Operating altitude	03000 m
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
Net weight	0.32 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 cm
Package 1 Width	9.200 cm
Package 1 Length	11.200 cm
Package 1 Weight	351.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.280 kg
Unit Type of Package 3	P06
Number of Units in Package 3	320

Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	125.520 kg

Offer Sustainability

Sustainable offer status	Green Premium product		
REACh Regulation	☐ REACh Declaration		
REACh free of SVHC	Yes		
EU RoHS Directive	Compliant EU RoHS Declaration		
Toxic heavy metal free	Yes		
Mercury free	Yes		
China RoHS Regulation	[™] China RoHS Declaration		
RoHS exemption information	₫Yes		
Environmental Disclosure	Product Environmental Profile		
Circularity Profile	End Of Life Information		
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins		
PVC free	Yes		

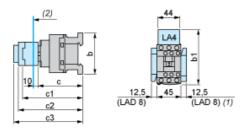
Contractual warranty

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vvarrantv 18 months	

Product data sheet **Dimensions Drawings**

LC1D09P7

Dimensions



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

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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	
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, R, S and sealing cover	141	141	141	
(1)	Including LAD 4BB.	•		<u> </u>

Wiring

