Bảng thông số sản phẩm

Thông số kỹ thuật





Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 12A, 24V DC low consumption coil, screw clamp terminals

LC1D12BL

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-3 AC-1 AC-3e	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Motor power kW	3 kW at 220230 V AC 50/60 Hz (AC-3)
	5.5 kW at 380400 V AC 50/60 Hz (AC-3)
	5.5 kW at 415440 V AC 50/60 Hz (AC-3)
	7.5 kW at 500 V AC 50/60 Hz (AC-3)
	7.5 kW at 660690 V AC 50/60 Hz (AC-3)
	3.7 kW at 400 V AC 50/60 Hz (AC-4)
	3 kW at 220230 V AC 50/60 Hz (AC-3e)
	5.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	5.5 kW at 415440 V AC 50/60 Hz (AC-3e)
	7.5 kW at 500 V AC 50/60 Hz (AC-3e)
	7.5 kW at 660690 V AC 50/60 Hz (AC-3e)
Motor power hp	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 1 phase motors
	3 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	3 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	10 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal	25 A (at 60 °C) for power circuit
current	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	105 A 40 °C - 10 s for power circuit			
current	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			
	40 A gG at <= 690 V coordination type 1 for power circuit			
	25 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	0.36 W AC-3			
	1.56 W AC-1			
	0.36 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	30 Mcycles			
Electrical durability	2 Mcycles 12 A AC-3 at Ue <= 440 V			
•	0.8 Mcycles 25 A AC-1 at Ue <= 440 V			
	2 Mcycles 12 A AC-3e at Ue <= 440 V			
Control circuit type	DC low consumption			
Coil technology	Built-in bidirectional peak limiting diode suppressor			
Control circuit veltare limita				
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC			
	0.81.25 Uc (-4060 °C):operational DC			
	11.25 Uc (6070 °C):operational DC			
Inrush power in W	2.4 W (at 20 °C)			
Hold-in power consumption in W	2.4 W at 20 °C			
Operating time	77 ±15 % ms closing			
•	25 ±20 % ms opening			
Time constant	40 ms			
Maximum operating rate	3600 cyc/h 60 °C			
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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 mm ² - 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 2 12.5 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 2 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	Plate		
	Rail		
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	GL		
	BV DNV		
	LROS (Lloyds register of shipping)		
	RINA		
	UL CCC		
	CSA		
	GOST		
	UKCA CB		
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 device	-4060 °C 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	95 mm	
net weight	0.485 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.0 cm
Package 1 Width	9.2 cm
Package 1 Length	11.3 cm
Package 1 Weight	528.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	8.284 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	80.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	143.22 kg

Contractual warranty

Warranty 18 months



Nhãn **Green PremiumTM** là cam kết của Schneider Electric trong việc cung cấp sản phẩm với hiệu suất môi trường tốt nhất. Green Premium cam kết tuân thủ các quy định mới nhất, minh bạch về tác động môi trường, cũng như các sản phẩm tuần hoàn và CO_2 thấp.

Hướng dẫn đánh giá tính bền vững của sản phẩm là tài liệu kỹ thuật phổ thông giúp làm rõ các tiêu chuẩn nhãn sinh thái toàn cầu và cách diễn giải việc khai báo môi trường.

Tìm hiểu thêm về Green Premium >

Hướng dẫn đánh giá về sự bền vững của sản phẩm >





Minh bach RoHS/REACh

Hiệu suất sức khoẻ

⊘	Toxic Heavy Metal Free	
②	Mercury Free	
②	Rohs Exemption Information	Yes
⊘	Pvc Free	

Chứng nhận & Tiêu chuẩn

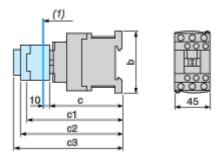
Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

Bảng thông số sản phẩm

LC1D12BL

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b		77	99	80
	without cover or add-on blocks	93	93	93
С	with cover, without add-on blocks	95	95	95
с1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
с3	with LAD T, R, S	146	146	146
	with LAD T, R, S and sealing cover	150	150	150

Bảng thông số sản phẩm

LC1D12BL

Connections and Schema

Wiring

