

IEC contactor, TeSys Deca, nonreversing, 12A, 7.5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VAC 50/60Hz coil, open

LC1D12E7

Product availability: Stock - Normally stocked in distribution facility

Price*: 142.80 USD

Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Motor control
	Resistive load
Utilisation category	AC-4
	AC-1
	AC-3
	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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	48 V AC 50/60 Hz

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) 7.5 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)			
Maximum Horse Power Rating	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 phase motors 3 hp at 230/240 V AC 50/60 Hz for 3 phase motors 7.5 hp at 460/480 V AC 50/60 Hz for 3 phase motors 10 hp at 575/600 V AC 50/60 Hz for 3 phase motors			
Compatibility code	LC1D			
Pole contact composition	3 NO			
Protective cover	With			

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Ith] conventional free air thermal current	25 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (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		
[Icw] rated short-time withstand current	105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (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 IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL		
overvoltage category	III		
pollution degree	3		
[Uimp] rated impulse withstand voltage	6 kV IEC 60947		
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1		
Mechanical durability	15 Mcycles		
Electrical durability	2 Mcycles 12 A AC-3 <= 440 V 0.8 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 12 A AC-3e <= 440 V		
Control circuit type	AC 50/60 Hz standard		
Coil technology	Without built-in suppressor module		
Control circuit voltage limits	0.30.6 Uc (-40158 °F (-4070 °C)):drop-out AC 50/60 Hz 0.81.1 Uc (-40140 °F (-4060 °C)):operational AC 50 Hz 0.851.1 Uc (-40140 °F (-4060 °C)):operational AC 60 Hz 11.1 Uc (140158 °F (6070 °C)):operational AC 50/60 Hz		
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))		
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))		
Heat dissipation	23 W at 50/60 Hz		
Operating time	1222 ms closing 419 ms opening		
Maximum operating rate	3600 cyc/h at 60 °C		

Connections - terminals	Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness:	
	flexible with cable end Power circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end	
	Power circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness; solid without cable end	
Tightening torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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 60947-4-1	
	IEC 60335-1:Clause 30.2	
	IEC 60335-2-40:Annex JJ	
	UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1	
Product Certifications	UL	
	CCC	
	CSA	
	Marine UKCA	
	EAC	
	CB Scheme	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat	

Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) 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	3.03 in (77 mm)	
Width	1.8 in (45 mm)	
Depth	3.4 in (86 mm)	
Net Weight	0.717 lb(US) (0.325 kg)	

Ordering and shipping details

Category	US10I1222354
Discount Schedule	0112
GTIN	3389110349191
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.62 in (9.200 cm)
Package 1 Length	4.41 in (11.200 cm)
Package 1 Weight	12.628 oz (358.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.535 lb(US) (7.500 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	282.192 lb(US) (128.000 kg)

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	19
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

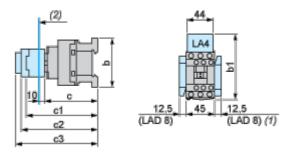
Use Again

○ Repack and remanufacture	
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.
Take-back	No

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Dimensions Drawings

Dimensions



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

LC1		D09D18	D093D123	D099D129
b	without add-on blocks	77	99	80
	with LAD 4BB	94	107	95.5
b1	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
-2	with LAD T, R, S	137	137	137
с3	with LAD T, R, S and sealing cover	141	141	141
(1)	Including LAD 4BB.			

Product data sheet

LC1D12E7

Connections and Schema

Wiring

