



IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open

Product availability: Stock - Normally stocked in distribution

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	18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Motor power kW	4 kW at 220230 V AC 50/60 Hz (AC-3)
	7.5 kW at 380400 V AC 50/60 Hz (AC-3)
	9 kW at 415440 V AC 50/60 Hz (AC-3)
	10 kW at 500 V AC 50/60 Hz (AC-3)
	10 kW at 660690 V AC 50/60 Hz (AC-3)
	4 kW at 400 V AC 50/60 Hz (AC-4)
	4 kW at 220230 V AC 50/60 Hz (AC-3e)
	7.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	9 kW at 415440 V AC 50/60 Hz (AC-3e)
	10 kW at 500 V AC 50/60 Hz (AC-3e)
	10 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	1 hp at 115 V AC 50/60 Hz for 1 phase motors
	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	5 hp at 200/208 V AC 50/60 Hz for 3 phase motors
	5 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	10 hp at 460/480 V AC 50/60 Hz for 3 phase motors
	15 hp at 575/600 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit
current	32 A (at 140 °F (60 °C)) for power circuit
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Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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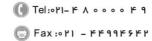
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Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
	300 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	300 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	145 A 104 °F (40 °C) - 10 s for power circuit
current	240 A 104 °F (40 °C) - 1 s for power circuit
	40 A 104 °F (40 °C) - 10 min for power circuit
	84 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
	50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
Power dissipation per pole	2.5 W AC-1
	0.8 W AC-3
	0.8 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	30 Mcycles
Electrical durability	1.65 Mcycles 18 A AC-3 <= 440 V
	1 Mcycles 32 A AC-1 <= 440 V
	1.65 Mcycles 18 A AC-3e <= 440 V
Control circuit type	DC standard
Coil technology	With integral suppression device
Control circuit voltage limits	0.10.25 Uc (-40158 °F (-4070 °C)):drop-out DC
	0.71.25 Uc (-40140 °F (-4060 °C)):operational DC
	11.25 Uc (140158 °F (6070 °C)):operational DC
Inrush power in W	5.4 W 68 °F (20 °C))
Hold-in power consumption in W	5.4 W 68 °F (20 °C)
Operating time	63 ±15 % ms closing
	20 ±20 % ms opening
Time constant	28 ms
Maximum operating rate	3600 cyc/h at 60 °C









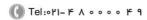
Control sirouit: corou elemp terminale 1.0.002 0.006 in 2/1 4 mm²) coble		
Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable		
stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable		
stiffness: flexible without cable end		
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 in² (14 mm²) - cable stiffness: solid without cable end		
Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end		
Power circuit: screw clamp terminals 1 0.0020.009 in² (1.56 mm²) - cable stiffness: flexible without cable end		
Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable stiffness: flexible without cable end		
Power circuit: screw clamp terminals 1 0.0020.009 in² (16 mm²) - cable stiffness:		
flexible with cable end Power circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end		
Power circuit: screw clamp terminals 1 0.0020.009 in² (1.56 mm²) - cable		
stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable		
stiffness: solid without cable end		
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		
1 NO + 1 NC		
Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1		
25400 Hz		
17 V for signalling circuit		
5 mA for signalling circuit		
> 10 MOhm for signalling circuit		
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact		
Plate Rail		
CSA C22.2 No 14		
EN 60947-4-1 EN 60947-5-1		
IEC 60947-3-1		
IEC 60947-5-1		
UL 60947-4-1		
IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ		
IEC 00333-2-40.Affilex 33		
UL 60335-2-40:Annex JJ		
UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1		
CSA C22.2 No 60947-4-1		
CSA C22.2 No 60947-4-1 UL CCC CSA		
CSA C22.2 No 60947-4-1 UL CCC CSA Marine		
CSA C22.2 No 60947-4-1 UL CCC CSA Marine UKCA		
CSA C22.2 No 60947-4-1 UL CCC CSA Marine		
CSA C22.2 No 60947-4-1 UL CCC CSA Marine UKCA EAC		
UL CCC CSA Marine UKCA EAC CB Scheme		
UL CCC CSA Marine UKCA EAC CB Scheme IP20 front face IEC 60529		

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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	3.7 in (95 mm)	
Net Weight	1.08 lb(US) (0.49 kg)	

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
GTIN	3389110354775
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	4.33 in (11.000 cm)
Package weight(Lbs)	18.430 oz (522.500 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
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	17.875 lb(US) (8.108 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
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	302.210 lb(US) (137.080 kg)

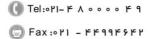
Contractual warranty

Warranty 18 months



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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)	39
Environmental Disclosure	Product Environmental Profile

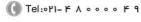
Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4-a369-50d0dea6e592
REACh Regulation	REACh 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
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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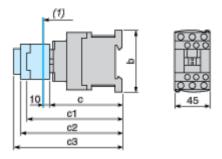


LC1D18BD



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
C3	with LAD T, R, S and sealing cover	150	150	150

LC1D18BD



Connections and Schema

Wiring



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Image of product / Alternate images

Alternative

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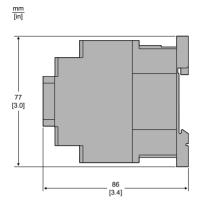
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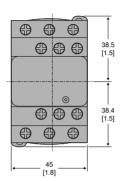
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Technical Illustration

Assembly's dimensions





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