

# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 230 V AC coil

Local distributor code:

381802817 LC1D12P7

EAN Code: 3389110349306

### Main

Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4 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	230 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) 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 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		

[Icw] 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	15 Mcycles
Electrical durability	2 Mcycles 12 A AC-3 at Ue <= 440 V
j	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
	2 Mcycles 12 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 nower consumption in VA	7.5.VA 00.11=
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 at 60 °C

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 mm <sup>2</sup> - cable stiffness: flexible with cable end		
Control circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - 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		
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		
1 NO + 1 NC		
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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		
Rail		
Plate		
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		
UL		
CCC CSA		
Marine		
UKCA		
EAC CB Scheme		
IP20 front face conforming to IEC 60529		
TH conforming to IEC 60068-2-30		
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	86 mm	
Net weight	0.325 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	353.000 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	7.388 kg

## **Contractual warranty**

Warranty 18 months

# **Environmental Data**

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.

How this information helps you >

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
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

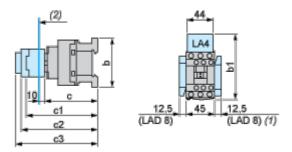
Take-back

No

## LC1D12P7

### **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
	with LA4 D●2	110 <sup>(1)</sup>	123 <sup>(1)</sup>	111.5 <sup>(1)</sup>
b1	with LA4 DF, DT	<sub>119</sub> (1)	132 <sup>(1)</sup>	120.5 <sup>(1)</sup>
	with LA4 DW, DL	<sub>126</sub> (1)	139(1)	<sub>127.5</sub> (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
с2	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.			

Connections and Schema

Wiring

## **Product datasheet**

## LC1D12P7

Image of product / Alternate images

**Alternative** 





