Specifications



TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 9 A - 400 V AC coil

Local distributor code: 381800880

LC1D09V7

EAN Code: 3389110349122

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-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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	400 V AC 50/60 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	
[Ith] conventional free air thermal current		
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		
	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 at 60 °C		
	·····,····		

Connections - terminals	Power circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without	
	cable end	
	Power circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without	
	cable end	
	Power circuit: screw clamp terminals 1 14 mm ² - 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 mm ² - cable stiffness: solid without cable end	
	Power circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 14 mm ² - 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	
A	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
Auxiliary contacts type		
Signalling circuit frequency	type mirror contact 1 NC conforming to IEC 60947-4-1	
Signalling circuit frequency Minimum switching voltage	type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz	
Signalling circuit frequency Minimum switching voltage Minimum switching current	type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit	
Auxiliary contacts type Signalling circuit frequency Minimum switching voltage Minimum switching current Insulation resistance Non-overlap time	type mirror contact 1 NC conforming to IEC 60947-4-1 25400 Hz 17 V for signalling circuit 5 mA for signalling circuit	

Environment

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	-4060 °C	
temperature around the 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

PCE
1
5.000 cm
9.200 cm
11.200 cm
353.000 g
\$02
20
15.000 cm
30.000 cm
40.000 cm
7.300 kg
P06
160
45.000 cm
60.000 cm
80.000 cm
66.632 kg

Logistical informations

Country of origin

FR

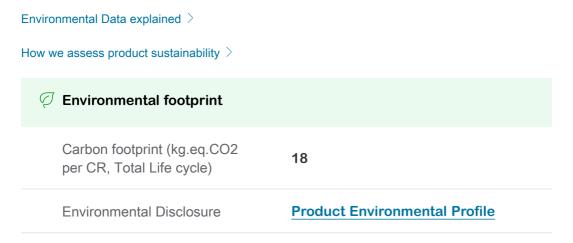
Contractual warranty

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.



Use Better

Materials and Substances	
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

\circlearrowright Repack and remanufacture	
Circularity Profile	End of Life Information

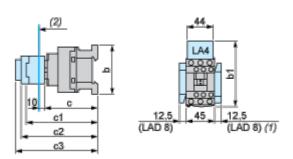
Life Is On Schneider

 WEEE
 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

 Take-back
 No

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 (1)	₁₂₃ (1)	111.5 (1)
b1	with LA4 DF, DT	₁₁₉ (1)	132 ⁽¹⁾	120.5 (1)
	with LA4 DW, DL	126 ⁽¹⁾	₁₃₉ (1)	127.5 (1)
	without cover or add-on blocks	84	84	84
c v	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
~~~~	with LAD T, R, S	137	137	137
c3	with LAD T, R, S and sealing cover	141	141	141
(1)	Including LAD 4BB.			

Connections and Schema

Wiring

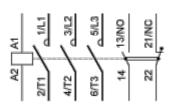


Image of product / Alternate images

#### Alternative









#### **Technical Illustration**

#### Assembly's dimensions

