Specifications





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 9 A - 110 V AC coil

LC1D09F7

Main

Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-3 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	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	110 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	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

[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	11
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 nowon committee in MA	
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 60 °C
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 Philips 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			

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

Unit Type of Package 1PCENumber of Units in Package 11Package 1 Height5 cmPackage 1 Width9.2 cmPackage 1 Length11.3 cmPackage 1 Weight351 gUnit Type of Package 2S02Number of Units in Package 220Package 2 Height15 cmPackage 2 Height0 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Weight80 cmPackage 3 Length60 cmPackage 3 Weight130.555 kg	-	
Package 1 Height5 cmPackage 1 Width9.2 cmPackage 1 Length11.3 cmPackage 1 Weight351 gDunit Type of Package 2SO2Number of Units in Package 220Package 2 Height15 cmPackage 2 Width30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 380 cmPackage 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Unit Type of Package 1	PCE
Package 1 Width9.2 cmPackage 1 Length11.3 cmPackage 1 Length11.3 cmPackage 1 Weight351 gUnit Type of Package 2S02Number of Units in Package 220Package 2 Height15 cmPackage 2 Width30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 380 cmPackage 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Number of Units in Package 1	1
Package 1 Length11.3 cmPackage 1 Weight351 gPackage 1 Weight351 gUnit Type of Package 2S02Number of Units in Package 220Package 2 Height15 cmPackage 2 Height30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Package 1 Height	5 cm
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Number of Units in Package 220Package 2 Height15 cmPackage 2 Width30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Package 1 Weight	351 g
Package 2 Height15 cmPackage 2 Width30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Unit Type of Package 2	S02
Package 2 Width30 cmPackage 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Number of Units in Package 2	20
Package 2 Length40 cmPackage 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Package 2 Height	15 cm
Package 2 Weight7.535 kgUnit Type of Package 3P06Number of Units in Package 3320Package 3 Height80 cmPackage 3 Width80 cmPackage 3 Length60 cm	Package 2 Width	30 cm
Unit Type of Package 3 P06 Number of Units in Package 3 320 Package 3 Height 80 cm Package 3 Width 80 cm Package 3 Length 60 cm	Package 2 Length	40 cm
Number of Units in Package 3 320 Package 3 Height 80 cm Package 3 Width 80 cm Package 3 Length 60 cm	Package 2 Weight	7.535 kg
Package 3 Height 80 cm Package 3 Width 80 cm Package 3 Length 60 cm	Unit Type of Package 3	P06
Package 3 Width 80 cm Package 3 Length 60 cm	Number of Units in Package 3	320
Package 3 Length 60 cm	Package 3 Height	80 cm
	Package 3 Width	80 cm
Package 3 Weight 130.555 kg	Package 3 Length	60 cm
	Package 3 Weight	130.555 kg

Contractual warranty

Warranty

18 months

Sustainability Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Sustainable Packaging Transparency RoHS/REACh

Resource performance

Sustainable Packaging

Well-being performance

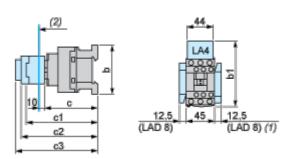
Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

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
С	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
c3	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

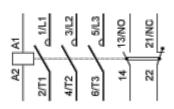


Image of product / Alternate images

Alternative







