Product datasheet

Specifications



Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, 440V, 95A, 220V AC 50/60Hz coil, screw clamp terminals

LC1D95M7

Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-3e AC-4 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz
[le] rated operational current	95 A (at <60 °C) at <= 440 V AC-3 for power circuit 125 A (at <60 °C) at <= 1000 V AC-1 for power circuit 95 A (at <60 °C) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary

Motor power kW	25 kW at 220230 V AC 50 Hz (AC-3) 45 kW at 380400 V AC 50 Hz (AC-3) 45 kW at 415440 V AC 50 Hz (AC-3) 55 kW at 500 V AC 50 Hz (AC-3) 45 kW at 660690 V AC 50 Hz (AC-3) 15 kW at 400 V AC 50 Hz (AC-4) 25 kW at 220230 V AC 50 Hz (AC-3e) 45 kW at 380400 V AC 50 Hz (AC-3e) 45 kW at 415440 V AC 50 Hz (AC-3e) 55 kW at 650690 V AC 50 Hz (AC-3e) 45 kW at 660690 V AC 50 Hz (AC-3e)
Motor power hp	45 kW at 660690 V AC 50 Hz (AC-56) 7.5 hp at 120 V AC 60 Hz for 1 phase motors 15 hp at 230/240 V AC 60 Hz for 1 phase motors 30 hp at 200/208 V AC 60 Hz for 3 phases motors
	30 hp at 230/240 V AC 60 Hz for 3 phases motors 60 hp at 460/480 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit
Irms rated making capacity	1100 A at 440 V AC 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	1100 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	1100 A 40 °C - 1 s for power circuit 800 A 40 °C - 10 s for power circuit 400 A 40 °C - 1 min for power circuit 135 A 40 °C - 10 min for power circuit 140 A - 100 ms for signalling circuit 120 A - 500 ms for signalling circuit 100 A - 1 s for signalling circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit	
Power dissipation per pole	12.5 W AC-1 7.2 W AC-3 7.2 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 1000 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 600 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	8 kV conforming to IEC 60947	
Safety reliability level	B10d = 1.3 Mcycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20 Mcycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	4 Mcycles	
Electrical durability	1.2 Mcycles 95 A AC-3 1.3 Mcycles 125 A AC-1 1.2 Mcycles 95 A AC-3e	
Control circuit type	AC at 50/60 Hz standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.81.1 Uc (-4055 °C):operational AC 50 Hz 0.851.1 Uc (-4055 °C):operational AC 60 Hz 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 11.1 Uc (5570 °C):operational AC 50/60 Hz	
Inrush power in VA	245 VA 60 Hz cos phi 0.75 (at 20 °C) 245 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	26 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	610 W at 50/60 Hz	
Operating time	2035 ms closing 620 ms opening	
Maximum operating rate	3600 cyc/h at 60 °C	

Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end			
	Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible with 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: solid without cable end			
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end			
	Power circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm ² - cable stiffness: flexible with cable end Power circuit: connector 2 416 mm ² - cable stiffness: flexible with cable end Power circuit: connector 1 450 mm ² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm ² - cable stiffness: solid without cable end Power circuit: connector 2 425 mm ² - cable stiffness: solid without cable end			
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat \emptyset 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat \emptyset 6 to \emptyset 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 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			
Mounting support	Rail Plate			

Environment

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2
Product certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC
IP degree of protection	IP20 front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Climatic withstand	conforming to IACS E10 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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	130 mm
Net weight	1.61 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	14.000 cm
Package 1 Width	13.500 cm
Package 1 Length	9.500 cm
Package 1 Weight	1.553 kg
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.090 kg
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	140.260 kg

Contractual warranty

Warranty

18 months

C 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.

Environmental Data explained >

How we assess product sustainability \geq

${ \ensuremath{\overline{\mathcal{Q}}}}$ Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	62
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
PVC free	Yes

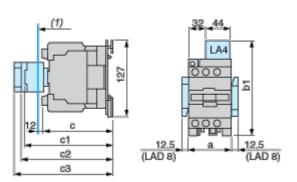
Use Again

$^{\circlearrowright}$ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1			D95
а		85	85
	with LA4 D●2	135	135
	with LA4 DB3 or LAD 4BB3	135	-
b1	with LA4 DF, DT with LA4 DM, DW, DL		142
			150
without cover or add-on blocks		125	125
c	with cover, without add-on blocks	130	130
	with LAD N (1 contact)		150
c1	with LAD N or C (2 or 4 contacts)	158	158
c2	with LA6 DK10, LAD 6DK	170	170
- 2	with LAD T, R, S	178	178
c3	with LAD T, R, S and sealing cover	182	182

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Connections and Schema

Wiring

