

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 220 V AC 50/60 Hz coil

LC1D50AM7

Main

Range	TeSys TeSys Deca
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
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	50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary

•		
Motor power kW	15 kW at 220230 V AC 50/60 Hz (AC-3)	
	22 kW at 380400 V AC 50/60 Hz (AC-3)	
	30 kW at 500 V AC 50/60 Hz (AC-3)	
	33 kW at 660690 V AC 50/60 Hz (AC-3)	
	25 kW at 415 V AC 50/60 Hz (AC-3)	
	30 kW at 440 V AC 50/60 Hz (AC-3)	
	11 kW at 400 V AC 50/60 Hz (AC-4)	
	15 kW at 220230 V AC 50/60 Hz (AC-3e)	
	22 kW at 380400 V AC 50/60 Hz (AC-3e)	
	30 kW at 500 V AC 50/60 Hz (AC-3e)	
	33 kW at 660690 V AC 50/60 Hz (AC-3e)	
	25 kW at 415 V AC 50/60 Hz (AC-3e)	
	30 kW at 440 V AC 50/60 Hz (AC-3e)	
Motor power hp	3 hp at 115 V AC 50/60 Hz for 1 phase motors	
	7.5 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	15 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	15 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	40 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility code	LC1D	
Pole contact composition	ition 3 NO	
Protective cover	With	
[Ith] conventional free air thermal	10 A (at 60 °C) for signalling circuit	
current	80 A (at 60 °C) for power circuit	

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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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
	900 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand	400 A 40 °C - 10 s for power circuit
current	810 A 40 °C - 1 s for power circuit
	84 A 40 °C - 10 min for power circuit
	208 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
	100 A gG at <= 690 V coordination type 1 for power circuit
	100 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	3.7 W AC-3
· · · · · · · · · · · · · · · · · · ·	9.6 W AC-1
	3.7 W AC-3e
[Ui] rated insulation voltage	Power circuit: 600 V CSA cortified
[Oi] rated insulation voitage	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
	Power circuit: 690 V conforming to IEC 60947-4-1
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	6 Mcycles
Electrical durability	1.45 Mcycles 50 A AC-3 at Ue <= 440 V
,	1.1 Mcycles 80 A AC-1 at Ue <= 440 V
	1.45 Mcycles 50 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	140 VA 60 Hz cos phi 0.75 (at 20 °C)
	160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C)
noia-in power consumption in va	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	45 W at 50/60 Hz
Operating time	419 ms opening
	1226 ms closing
Maximum operating rate	3600 cyc/h at 60 °C

Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with	
	cable end Control circuit: screw clamp terminals 1 14 mm² - 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 mm² - 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: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible	
	without cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible without cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid	
	without cable end Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid	
	without cable end	
Fightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø	
	6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver	
	Philips No 2	
	Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² hexagonal screw head 4 mm	
	Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm ²	
	hexagonal screw head 4 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver	
	pozidriv No 2	
	Power circuit: 2.5 N.m - on EverLink BTR screw connectors - 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	
nsulation 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	Plate	
	Rail	
Environment		
Standards	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1 IEC 60947-5-1	
	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	

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 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 closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms)	
Height	122 mm	
Width	55 mm	
Depth	120 mm	
Net weight	0.855 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.5 cm
Package 1 Length	15.2 cm
Package 1 Weight	916.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.93 kg
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	77.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	165.698 kg

Contractual warranty

Warranty 18 months



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.eq.CO2 per CR, Total Life cycle)	56
Environmental Disclosure	Product Environmental Profile

Use Better

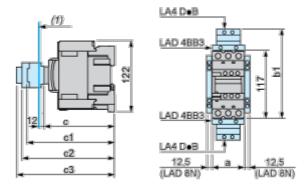
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
PVC free	Yes

Use Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
	with LA4 D●2	_
	with LA4 DB3 or LAD 4BB3	136
b1	with LA4 DF, DT	157
	with LA4 DM, DW, DL	166
	without cover or add-on blocks	118
С	with cover, without add-on blocks	120
-4	with LAD N (1 contact)	-
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK10, LAD 6DK	163
сЗ	with LAD T, R, S	171
	with LAD T, R, S and sealing cover	175

Connections and Schema

Wiring

