

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 50 A - 24 V DC standard coil

Local distributor code: 390826240

00826240 LC1D50ABD

EAN Code: 3389119408783

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	24 V DC	

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	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

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	
Pated breaking canacity		
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947	
[lcw] rated short-time withstand current	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 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	10 Mcycles	
Electrical durability	1.45 Mcycles 50 A AC-3 at Ue <= 440 V	
	0.5 Mcycles 80 A AC-1 at Ue <= 440 V	
	1.45 Mcycles 50 A AC-3e at Ue <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC	
-	0.751.25 Uc (-4060 °C):operational DC	
	11.25 Uc (6070 °C):operational DC	
Inrush power in W	19 W (at 20 °C)	
Hold-in power consumption in W	7.4 W at 20 °C	
Operating time	50 ±15 % ms closing	
. •	1624 ms opening	
Time constant	34 ms	
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 mm² - 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: screw connection 1 135 mm² - cable stiffness: flexible without cable	
	end Power circuit: screw connection 2 125 mm² - cable stiffness: flexible without cable	
	end	
	Power circuit: screw connection 1 135 mm² - cable stiffness: flexible with cable end Power circuit: screw connection 2 125 mm² - cable stiffness: flexible with cable end Power circuit: screw connection 1 135 mm² - cable stiffness: solid without cable end	
	Power circuit: screw connection 2 125 mm² - cable stiffness: solid without cable end	
Tightening torque	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 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²	
	hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 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	Plate	
	Rail	
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 CSA	
	CE	
	UKCA Marina	
	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	
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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	
Product weight	0.93 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.200 cm
Package 1 Width	13.700 cm
Package 1 Length	15.200 cm
Package 1 Weight	999.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.260 kg

Logistical informations

Country of origin F

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)	70
Environmental Disclosure	Product Environmental Profile

Use Better

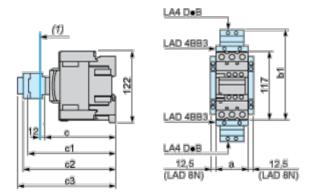
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

Use Again

○ 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

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
L 4	with LAD 4BB3	136
b1	with LA4 DF, DT	157
	without cover or add-on blocks	118
С	with cover, without add-on blocks	120
c1	with LAD N (1 contact)	_
	with LAD N or C (2 or 4 contacts)	150
с2	with LA6 DK10	163
с3	with LAD T, R, S	171
	with LAD T, R, S and sealing cover	175

Connections and Schema

Wiring

