Specifications



TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 65 A - 220 V AC 50/60 Hz coil

LC1D65AM7

Main

Range	TeSys TeSys Deca
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-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	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 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	11 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 220230 V AC 50/60 Hz (AC-3)
	30 kW at 380400 V AC 50/60 Hz (AC-3)
	37 kW at 500 V AC 50/60 Hz (AC-3)
	37 kW at 660690 V AC 50/60 Hz (AC-3)
	18.5 kW at 220230 V AC 50/60 Hz (AC-3e)
	30 kW at 380400 V AC 50/60 Hz (AC-3e)
	37 kW at 500 V AC 50/60 Hz (AC-3e)
	37 kW at 660690 V AC 50/60 Hz (AC-3e)
Motor power hp	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	5 hp at 115 V AC 50/60 Hz for 1 phase motors
	10 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	20 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	20 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	50 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
	1000 A at 440 V for power circuit conforming to IEC 60947

Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 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	9.6 W AC-1 6.3 W AC-3 6.3 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	6 Mcycles
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.45 Mcycles 65 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) 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 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: 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	
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - 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 mm ² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid without cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid without cable end	
ightening 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 mm²	
	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	
Ainimum switching voltage	17 V for signalling circuit	
linimum 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	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 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	
Product weight	0.86 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.300 cm
Package 1 Width	13.500 cm
Package 1 Length	15.300 cm
Package 1 Weight	929.000 g
Unit Type of Package 2	\$02
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	9.849 kg
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	165.408 kg

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.

How this information helps you >

earrow ear	
Carbon footprint (kg CO2 eq, Total Life cycle)	67
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Νο
Packaging without single use plastic	Νο
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

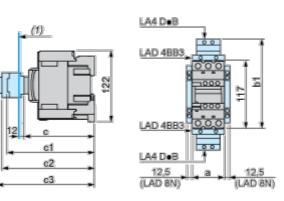
 WEEE
 The product must be
disposed on European Union
markets following specific
waste collection and never
end up in rubbish bins

 Take-back
 No

Product datasheet

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
a		55
	with LA4 D●2	-
b1	with LA4 DB3 or LAD 4BB3	136
ומ	with LA4 DF, DT	157
	with LA4 DM, DW, DL	166
	without cover or add-on blocks	118
c	with cover, without add-on blocks	120
	with LAD N (1 contact)	-
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK10, LAD 6DK	163
	with LAD T, R, S	171
c3	with LAD T, R, S and sealing cover	175

Product datasheet

Connections and Schema

Wiring

