

Contactor, TeSys Deca, 3P(3 NO), AC-3, <=400V, 65A, 48V DC standard coil, screw clamp terminals

LC1D65AED

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
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
[Uc] Control Circuit Voltage	48 V DC

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)	
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	10 A (at 60 °C) for signalling circuit	
Thermal 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	
A		
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	
[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	0.5 Mcycles 80 A AC-1 at Ue <= 440 V	
	1.45 Mcycles 65 A AC-3 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 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 1 135 mm² - cable stiffness: flexible with cable end Power circuit: screw connection 1 135 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 mm ² - cable stiffness: solid without cable end	

Tightening 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 mm² 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		
Taninary Contacto 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		
Environment		
Standards	CSA C22.2 No 14 EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1 IEC 60947-5-1	
	UL 508	
	IEC 60335-1	
Product Certifications	UL	
	GOST CSA	
	ccc	
p 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	
Pormissible Ambient Ain		
Permissible Ambient Air Temperature Around The Device	-4060 °C e 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	0.935 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	1.015 kg
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	10.300 kg

Contractual warranty

Warranty 18 months

Sustainability

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 >





Transparency RoHS/REACh

Well-being performance

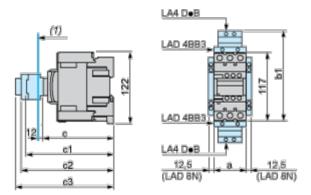
⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	Mercury Free	
⊘	Rohs Exemption Information	Yes
②	Pvc Free	

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	
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov	

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LAD 4BB3	136
	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
c2	with LA6 DK10	163
с3	with LAD T, R, S	171
	with LAD T, R, S and sealing cover	175

Product data sheet

LC1D65AED

Connections and Schema

Wiring

