



IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D40ABD

Product availability: Stock - Normally stocked in distribution facility

Price*: 275.00 USD

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	60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Motor power kW	18.5 kW at 380400 V AC 50/60 Hz (AC-3) 11 kW at 220230 V AC 50/60 Hz (AC-3) 22 kW at 415440 V AC 50/60 Hz (AC-3) 22 kW at 500 V AC 50/60 Hz (AC-3) 30 kW at 660690 V AC 50/60 Hz (AC-3) 9 kW at 400 V AC 50/60 Hz (AC-4)
	18.5 kW at 380400 V AC 50/60 Hz (AC-3e) 11 kW at 220230 V AC 50/60 Hz (AC-3e) 22 kW at 415440 V AC 50/60 Hz (AC-3e) 22 kW at 500 V AC 50/60 Hz (AC-3e) 30 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 3 phase motors 30 hp at 575/600 V AC 50/60 Hz for 3 phase motors 10 hp at 200/208 V AC 50/60 Hz for 3 phase motors 3 hp at 115 V AC 50/60 Hz for 1 phase motors 30 hp at 460/480 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 60 A (at 140 °F (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 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 1 min for power circuit 165 A 104 °F (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 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 5.4 W AC-1 2.4 W AC-3e
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL Power circuit 690 V IEC 60947-4-1
Overvoltage category	III
Overvoltage category Pollution degree	3
Pollution degree [Uimp] rated impulse withstand	3
Pollution degree [Uimp] rated impulse withstand voltage	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W Hold-in power consumption in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 19 W 68 °F (20 °C)) 7.4 W 68 °F (20 °C) 50 ±15 % ms closing
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W Hold-in power consumption in W Operating time	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 10 Mcycles 0.7 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 19 W 68 °F (20 °C) 7.4 W 68 °F (20 °C) 50 ±15 % ms closing 20 ±20 % ms opening

Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable	
	stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end	
	Power circuit: screw connection 1 0.0020.05 in² (135 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw connection 2 0.0020.04 in² (125 mm²) - cable stiffness:	
	flexible without cable end	
	Power circuit: screw connection 1 0.0020.05 in² (135 mm²) - cable stiffness: flexible with cable end	
	Power circuit: screw connection 2 0.0020.04 in² (125 mm²) - cable stiffness:	
	flexible with cable end	
	Power circuit: screw connection 1 0.0020.05 in² (135 mm²) - cable stiffness: solid without cable end	
	Power circuit: screw connection 2 0.0020.04 in² (125 mm²) - cable stiffness: solid	
	without cable end	
Γightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in² (25	
	35 mm²) hexagonal 0.2 in (4 mm)	
	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1 25 mm ²) hexagonal 0.2 in (4 mm)	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC 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 60947-4-1 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	
P degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	

Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) 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	4.8 in (122 mm)
Width	2.2 in (55 mm)
Depth	4.7 in (120 mm)
Net Weight	2.039 lb(US) (0.925 kg)

Ordering and shipping details

Category	US10I1222358
Discount Schedule	0112
GTIN	3389119408486
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.441 in (6.200 cm)
Package 1 Width	5.394 in (13.700 cm)
Package 1 Length	5.984 in (15.200 cm)
Package 1 Weight	34.533 oz (979.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	22.223 lb(US) (10.080 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	395.245 lb(US) (179.280 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

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 >







Sustainable Packaging Transparency RoHS/REACh

Resource performance



Sustainable Packaging

Well-being performance

Reach Free Of Svhc



N
 Jury Free



Rohs Exemption Information

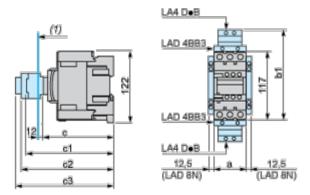
Yes

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
ומ	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)	_
CI	with LAD N or C (2 or 4 contacts)	150
с2	with LA6 DK10	163
	with LAD T, R, S	171
с3	with LAD T, R, S and sealing cover	175

Connections and Schema

Wiring

