www.BaBaedison.com / ۹۹۱۲-۰۰ ۶۷ ۲۷ ۸ / ۴۰۰ داخلی ۴۵۰ ۲۹ ۱۰ مال ۹۱۲-۰۰ ۹۱۲ ۹۰ ۹۰ ۹۱۲ ۹۰ ۹۰ ۹۱۲ ۹۰ ۱۰ ۹۱۲ ۹۰ ۱۰ ۹

Product datasheet

Specifications





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 40 A - 48 V AC 50/60 Hz coil

LC1D40AE7

Main

Range	TeSys TeSys Deca	
Range Of Produc	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 <60 °C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	48 V AC 50/60 Hz	

Complementary

oompicinentary		
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-3) 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)	
Motor Power Hp	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 phases motors 30 hp at 575/600 V AC 50/60 Hz for 3 phases motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases 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 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Contact Compatibility	M2	
Protective Cover	With	
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 60 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.

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
[Icw] Rated Short-Time Withstand Current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 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 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 certified Power circuit: 600 V UL certified Signalling circuit: 600 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	
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 60 A AC-1 at Ue <= 440 V 1.5 Mcycles 40 A AC-3 at Ue <= 440 V 1.5 Mcycles 40 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 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: screw connection 1 135 mm ² - cable stiffness: flexible without cable end
	Power circuit: screw connection 2 125 mm ² - cable stiffness: flexible without cable end
	Power circuit: screw connection 1 135 mm ² - cable stiffness: flexible with cable end Power circuit: screw connection 2 125 mm ² - cable stiffness: flexible with cable end
	Power circuit: screw connection 1 135 mm ² - 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 screw clamp terminals - with screwdriver flat \varnothing 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 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 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 Voltage Minimum Switching Current	17 V for signalling circuit 5 mA for signalling circuit
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Current Insulation Resistance	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail
Minimum Switching Current Insulation Resistance Non-Overlap Time	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Minimum Switching Current Insulation Resistance Non-Overlap Time	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate 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 GOST
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 GOST CSA
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate 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 GOST
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 508 IEC 60335-1 GOST CSA UL
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards Product Certifications	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 GOST CSA UL CCC
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards Product Certifications Ip Degree Of Protection	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 GOST CSA UL CCC IP20 front face conforming to IEC 60529
Minimum Switching Current Insulation Resistance Non-Overlap Time Mounting Support Environment Standards Product Certifications Ip Degree Of Protection Protective Treatment	5 mA for signalling circuit > 10 MOhm for signalling circuit 1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact Rail Plate CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 GOST CSA UL CCC IP20 front face conforming to IEC 60529 TH conforming to IEC 60068-2-30 conforming to IACS E10 exposure to damp heat

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	0.85 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	922.0 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	9.975 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	167.86 kg

Contractual warranty

Warranty

18 months

Sustainability Seren

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Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Yes

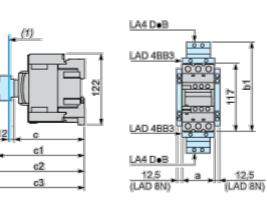
Pvc Free

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	

Product datasheet

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	
	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**

LC1D40AE7

Connections and Schema

Wiring



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