Specifications



IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VAC 50/60Hz coil, open

LC1D40AB7

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 261.60 USD

### Main

mann		
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	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 AC 50/60 Hz	

## 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	
[Icw] 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) - 10 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	
pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	6 Mcycles	
Electrical durability	1.4 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	
Control circuit type	AC 50/60 Hz standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc (-40158 °F (-4070 °C)):drop-out AC 50/60 Hz 0.81.1 Uc (-40140 °F (-4060 °C)):operational AC 50 Hz 0.851.1 Uc (-40140 °F (-4060 °C)):operational AC 60 Hz 11.1 Uc (140158 °F (6070 °C)):operational AC 50/60 Hz	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (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	

Control circuit: screw clamp terminals 2 0.0020.004 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable	
stiffness: flexible with cable end	
Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable	
stiffness: flexible without cable end	
Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable	
stiffness: flexible without cable end	
Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable	
stiffness: flexible with cable end	
Control circuit: screw clamp terminals 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
Control circuit: screw clamp terminals 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
Power circuit: screw connection 1 0.0020.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: flexible without cable end	
Power circuit: screw connection 2 0.0020.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: flexible without cable end	
Power circuit: screw connection 1 0.0020.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: flexible with cable end	
Power circuit: screw connection 2 0.0020.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: flexible with cable end	
Power circuit: screw connection 1 0.0020.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
Power circuit: screw connection 2 0.0020.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
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 in <sup>2</sup> (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 <sup>2</sup> (1	
25 mm <sup>2</sup> ) 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	
1 NO + 1 NC	
Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
Mirror contact 1 NC IEC 60947-4-1	
25400 Hz	
17 V for signalling circuit	
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	
Dista	
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 CE UKCA Marine EAC
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30

Life Is On Schneider

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	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °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	1.87 lb(US) (0.85 kg)	

# Ordering and shipping details

Category	US10I1222357
Discount Schedule	0 12
GTIN	3389119408325
Returnability	Yes
Country of origin	ID

# **Packing Units**

V	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.52 in (6.400 cm)
Package 1 Width	5.35 in (13.600 cm)
Package 1 Length	6.10 in (15.500 cm)
Package 1 Weight	32.804 oz (930.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	21.517 lb(US) (9.760 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	30.31 in (77.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	368.128 lb(US) (166.980 kg)

# **Contractual warranty**

Warranty

18 months

# Lenvironmental 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.

#### Environmental Data explained >

How we assess product sustainability  $\geq$ 

${\mathcal Q}$ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	50
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
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
PVC free	Yes

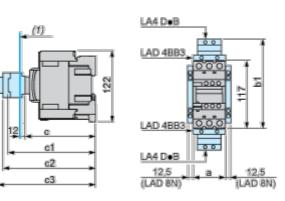
### Use Again

$^{\circlearrowright}$ 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 data sheet

### **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
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 data sheet

Connections and Schema

### Wiring

