# Product data sheet

Specifications





# IEC contactor, TeSys Deca, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 48VAC 50/60Hz coil, open

LC1D65AE7

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Price\*: 386.40 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	ЗР	
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC	
[le] Rated Operational Current	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	48 V AC 50/60 Hz	

### Complementary

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)
40 hp at 460/480 V AC 50/60 Hz for 3 phase 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 phase motors 20 hp at 230/240 V AC 50/60 Hz for 3 phase motors 50 hp at 575/600 V AC 50/60 Hz for 3 phase motors
LC1D
3 NO
M2

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 80 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
internation making capacity	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	640 A 104 °F (40 °C) - 10 s for power circuit
Current	900 A 104 °F (40 °C) - 1 s for power circuit
	110 A 104 °F (40 °C) - 10 min for power circuit
	260 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
	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
[o] hated modulation voltage	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	
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 80 A AC-1 <= 440 V
	1.45 Mcycles 65 A AC-3 <= 440 V
	1.45 Mcycles 65 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 Ve	
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 140 °F (60 °C)

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness:	
	flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:	
	flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:	
	flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:	
	flexible with cable end Control circuit: screw clamp terminals 1 0.000.01.in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:	
	solid without cable end	
	Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
	Power circuit: screw connection 1 0.000.05 in <sup>2</sup> (1,35 mm <sup>2</sup> ) - cable stiffness: flexible without cable end	
	Power circuit: screw connection 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness:	
	flexible without cable end Power circuit: screw connection 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness:	
	flexible with cable end Power circuit: screw connection 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness:	
	flexible with cable end	
	Power circuit: screw connection 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
	Power circuit: screw connection 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: solid without cable end	
Tightening Torque	Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors Philips No 2	
	Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in <sup>2</sup> (2535 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm)	
	Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in <sup>2</sup> (1	
	25 mm²) hexagonal 0.16 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No 2	
	Power circuit 22.13 lbf.in (2.5 N.m) EverLink BTR screw connectors pozidriv No 2	
uxiliary 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	
Ainimum Switching Voltage	17 V for signalling circuit	
Inimum 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	
Nounting Support	Plate Rail	
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	CSA CCC	
	GOST	
	UL	
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	

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	4.80 in (122 mm)	
Width	2.17 in (55 mm)	
Depth	4.72 in (120 mm)	
Net Weight	1.90 lb(US) (0.86 kg)	

# Ordering and shipping details

Category	US10I1222357	
Discount Schedule	0112	
Gtin	3389119408967	
Returnability	No	
Country Of Origin	ID	

# **Packing Units**

•	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.44 in (6.2 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	5.98 in (15.2 cm)
Package 1 Weight	32.66 oz (926.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	22.04 lb(US) (9.997 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	160
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	369.19 lb(US) (167.46 kg)

# **Contractual warranty**

Warranty

18 months

## Sustainability

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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

Yoxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Yes

Pvc Free

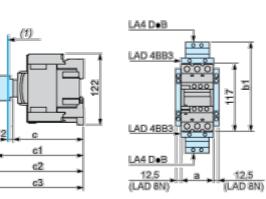
Certifications & Standards			
REACh Declaration			
Compliant EU RoHS Declaration			
China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)			
Product Environmental Profile			
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.			
End of Life Information			
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			

### Product data sheet

LC1D65AE7

### **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	
- 0	with LAD T, R, S	171	
c3	with LAD T, R, S and sealing cover	175	

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Connections and Schema

Wiring

