# **Product data sheet**

Specifications





IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open

LC1D40AF7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 261.60 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	110 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	
-	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	
	·	
	30 hp at 575/600 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	
Compatibility Code	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	

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

Contact Compatibility	M2	
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	

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
	flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:
	flexible without cable end  Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:
	flexible without cable end  Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end
	Power circuit: screw connection 1 0.000.05 in² (135 mm²) - cable stiffness:
	flexible without cable end  Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness:
	flexible without cable end Power circuit: screw connection 1 0.000.05 in² (135 mm²) - 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 in² (135 mm²) - cable stiffness: solid without cable end
	Power circuit: screw connection 2 0.000.04 in² (125 mm²) - cable stiffness: solid
	without cable end
Tightening 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 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in <sup>2</sup>
	(2535 mm²) hexagonal 0.16 in (4 mm)  Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in² (1
	25 mm²) hexagonal 0.16 in (4 mm)
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.13 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	<ul><li>1.5 ms on de-energisation between NC and NO contact</li><li>1.5 ms on energisation between NC and NO contact</li></ul>
Mounting Support	Rail Plate
	Tate .
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	CCC
	CSA GOST
	UL
lp 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)

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	1.87 lb(US) (0.85 kg)	

# Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
Gtin	3389119408356
Returnability	Yes
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	6.10 in (15.5 cm)
Package 1 Weight	32.45 oz (920.0 g)
Unit Type Of Package 2	P06
Number Of Units In Package 2	160
Package 2 Height	29.53 in (75.0 cm)
Package 2 Width	31.50 in (80.0 cm)
Package 2 Length	23.62 in (60.0 cm)
Package 2 Weight	366.72 lb(US) (166.34 kg)

# **Contractual warranty**

Warranty 18 months



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**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

### Well-being performance

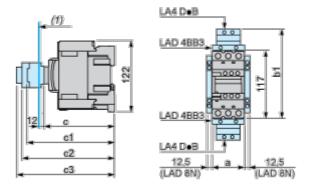
<b>⊘</b>	Reach Free Of Svhc
<b>⊘</b>	Toxic Heavy Metal Free
<b>⊘</b>	Mercury Free
<b>⊘</b>	Rohs Exemption Information Yes
<b>⊘</b>	Pvc Free

#### **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)	
<b>Environmental Disclosure</b>	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
	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
-2	with LAD T, R, S	171
с3	with LAD T, R, S and sealing cover	175

### Product data sheet

#### LC1D40AF7

Connections and Schema

Wiring

