## **Product data sheet**

Specification





IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, low consumption 24VDC coil

LC1D09BL

Product availability: Stock - Normally stocked in distribution facility

Price\*: 142.80 USD

#### Main

Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1 AC-4 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	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 9 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	2.2 kW at 220230 V AC 50/60 Hz (AC-3) 4 kW at 380400 V AC 50/60 Hz (AC-3) 4 kW at 415440 V AC 50/60 Hz (AC-3)			
	5.5 kW at 500 V AC 50/60 Hz (AC-3)			
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)			
	2.2 kW at 400 V AC 50/60 Hz (AC-4)			
	2.2 kW at 220230 V AC 50/60 Hz (AC-3e)			
	4 kW at 380400 V AC 50/60 Hz (AC-3e)			
	4 kW at 415440 V AC 50/60 Hz (AC-3e)			
	5.5 kW at 500 V AC 50/60 Hz (AC-3e)			
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)			
Maximum Horse Power Rating	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors			
	2 hp at 200/208 V AC 50/60 Hz for 3 phase motors			
	2 hp at 230/240 V AC 50/60 Hz for 3 phase motors			
	5 hp at 460/480 V AC 50/60 Hz for 3 phase motors			
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phase motors			
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors			
Compatibility Code	LC1D			
Pole Contact Composition	3 NO			
Protective Cover	With			
[Ith] Conventional Free Air Thermal Current	25 A (at 140 °F (60 °C)) for power circuit			
mermai Gurrent	10 A (at 140 °F (60 °C)) for signalling 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	250 A at 440 V for power circuit conforming to IEC 60947
	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	105 A 104 °F (40 °C) - 10 s for power circuit
Current	210 A 104 °F (40 °C) - 1 s for power circuit
	30 A 104 °F (40 °C) - 10 min for power circuit
	61 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
	25 A gG at <= 690 V coordination type 1 for power circuit
	20 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power Dissipation Per Pole	1.56 W AC-1
	0.2 W AC-3
	0.2 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1
	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
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	30 Mcycles
Electrical Durability	0.6 Mcycles 25 A AC-1 <= 440 V
	2 Mcycles 9 A AC-3 <= 440 V
	2 Mcycles 9 A AC-3e <= 440 V
Control Circuit Type	DC low consumption
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC
	0.81.25 Uc -40140 °F (-4060 °C) operational DC
	11.25 Uc 140158 °F (6070 °C) operational DC
Inrush Power In W	2.4 W 68 °F (20 °C))
Hold-In Power Consumption In W	2.4 W 68 °F (20 °C)
Operating Time	77 ±15 % ms closing
	25 ±20 % ms opening
Time Constant	40 ms
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Connections - Terminals	Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end		
	Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:		
	flexible without cable end  Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:		
	flexible with cable end Power circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:		
	flexible with cable end		
	Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end		
	Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without 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 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: solid without cable end		
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end		
Tightening Torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm		
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 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 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2		
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals 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		
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	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	GL		
	BV DNV		
	DNV LROS (Lloyds register of shipping)		
	RINA		
	UL CCC		
	CSA		
	GOST UKCA		
	CB		
Ip 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 open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)	
Height	3.03 in (77 mm)	
Width	1.77 in (45 mm)	
Depth	3.74 in (95 mm)	
Net Weight	1.06 lb(US) (0.48 kg)	

# Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
Gtin	3389110361070
Returnability	Yes
Country Of Origin	ID

# **Packing Units**

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	1.97 in (5.000 cm)	
Package 1 Width	3.62 in (9.200 cm)	
Package 1 Length	4.41 in (11.200 cm)	
Package 1 Weight	18.62 oz (528.000 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	15	
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	18.04 lb(US) (8.182 kg)	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	240	
Package 3 Height	29.53 in (75.000 cm)	
Package 3 Width	23.62 in (60.000 cm)	
Package 3 Length	31.50 in (80.000 cm)	
Package 3 Weight	304.24 lb(US) (138.000 kg)	

## **Contractual warranty**

Warranty

May 26, 2024

18 months

## Sustainability Green Premium

**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

	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
	Pvc Free	

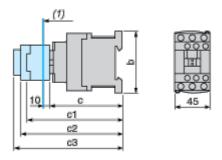
#### **Certifications & Standards**

Reach Regulation	REACh Declaration		
Eu Rohs Directive	Compliant with Exemptions		
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.		
Environmental Disclosure	Product Environmental Profile		
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		

### LC1D09BL

### **Dimensions Drawings**

### **Dimensions**



#### (1) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b		77	99	80
	without cover or add-on blocks	93	93	93
С	with cover, without add-on blocks	95	95	95
с1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
сЗ	with LAD T, R, S	146	146	146
	with LAD T, R, S and sealing cover	150	150	150

Connections and Schema

Wiring

