Product data sheet

Specifications





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

LC1D09BD

Product availability: Stock - Normally stocked in distribution facility

Price*: 119.00 USD

Main

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	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

C 50/60 Hz (AC-3) 50/60 Hz (AC-3) 50/60 Hz (AC-3) 50 Hz (AC-3) C 50/60 Hz (AC-3)
50/60 Hz (AC-3) 60 Hz (AC-3)
60 Hz (AC-3)
C 30/00 T12 (AC-3)
60 Hz (AC-4)
C 50/60 Hz (AC-3e)
50/60 Hz (AC-3e)
50/60 Hz (AC-3e)
60 Hz (AC-3e)
C 50/60 Hz (AC-3e)
0/60 Hz for 1 phase motors
0/60 Hz for 3 phase motors
0/60 Hz for 3 phase motors
0/60 Hz for 3 phase motors
50/60 Hz for 3 phase motors
60 Hz for 1 phase motors
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	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 Current	105 A 104 °F (40 °C) - 10 s for power circuit		
ourient	210 A 104 °F (40 °C) - 1 s for power circuit		
	$30 \text{ A} 104 ^{\circ}\text{F} (40 ^{\circ}\text{C}) - 10 \text{ min for power circuit}$		
	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		
[11] Potod Inculation Voltage			
[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		
	P104 - 1260062 surles contests with naminal load EN//60 12040 1		
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	2 Mcycles 9 A AC-3 <= 440 V		
	2 Mcycles 9 A AC-3e <= 440 V		
Control Circuit Type	DC standard		
Coil Technology	Built-in bidirectional peak limiting diode suppressor		
Control Circuit Voltage Limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC		
	0.71.25 Uc -40140 °F (-4060 °C) operational DC		
	11.25 Uc 140158 °F (6070 °C) operational DC		
Inrush Power In W	5.4 W 68 °F (20 °C))		
Hold-In Power Consumption In W	5.4 W 68 °F (20 °C)		
Operating Time	63 ±15 % ms closing		
	20 ±20 % ms opening		
Time Constant	28 ms		
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)		

Connections - Terminals	Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:		
	flexible without cable end Power circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness:		
	flexible without cable end		
	Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:		
	flexible with cable end		
	Power circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness:		
	flexible with cable end		
	Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:		
	solid without cable end		
	Power circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness: solid without cable end		
	Control circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:		
	flexible without cable end		
	Control circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness: flexible with cable end		
	Control circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness: flexible with cable end		
	Control circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness: solid without cable end		
	Control circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - 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		
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	1.5 ms on de-energisation between NC and NO contact		
·	1.5 ms on energisation between NC and NO contact		
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	LROS (Lloyds register of shipping) CSA UL GOST DNV CCC GL BV RINA UKCA
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	-40140 °F (-4060 °C)		
Temperature Around The Device	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	US10I1222355
Discount Schedule	0112
Gtin	3389110353075
Returnability	Yes
Country Of Origin	SG

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	4.37 in (11.100 cm)
Package 1 Weight	18.45 oz (523.000 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	17.99 lb(US) (8.160 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	302.65 lb(US) (137.280 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM 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-CO₂ 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
Rohs Exemption Information Yes
Pvc Free

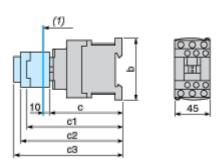
Certifications & Standards

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		

Product data sheet

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1	1	D09D18	D093D123	D099D129
b		77	99	80
	without cover or add-on blocks	93	93	93
c	with cover, without add-on blocks	95	95	95
c1	with LAD N or C (2 or 4 contacts)	126	126	126
c2	with LA6 DK10	138	138	138
~ 2	with LAD T, R, S	146	146	146
c3	with LAD T, R, S and sealing cover	150	150	150

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Connections and Schema

Wiring

