Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 24 V DC coil

LC2D09BD

Product availability: Stock - Normally stocked in distribution

Price*: 303.50 USD

Main

Range	TeSys TeSys Deca				
Product Name	TeSys D TeSys Deca				
Product Or Component Type	Reversing contactor				
Device Short Name	LC2D				
Contactor Application	Motor control Resistive load				
Utilisation Category	AC-3 AC-1 AC-3e				
Device Presentation	Preassembled with reversing power busbar				
Poles Description	3P				
Power Pole Contact Composition	3 NO				
[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				
Motor Power Kw	2.2 kW at 220230 V AC 50-60 Hz 4 kW at 380400 V AC 50-60 Hz 4 kW at 415 V AC 50-60 Hz 4 kW at 440 V AC 50-60 Hz 5.5 kW at 500 V AC 50-60 Hz 5.5 kW at 660690 V AC 50-60 Hz				
Motor Power Hp (UI / Csa)	0.5 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phase motors 2 hp at 230/240 V AC 60 Hz for 3 phase motors 5 hp at 460/480 V AC 60 Hz for 3 phase motors 7.5 hp at 575/600 V AC 60 Hz for 3 phase motors				
Control Circuit Type	DC standard				
[Uc] Control Circuit Voltage	24 V DC				
Auxiliary Contact Composition	1 NO + 1 NC				
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947				
Overvoltage Category	III				
[Ith] Conventional Free Air Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (60 °C)) 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	30 A 104 °F (40 °C) - 10 min for power circuit
Current	61 A 104 °F (40 °C) - 1 min for power circuit
	105 A 104 °F (40 °C) - 10 s for power circuit
	210 A 104 °F (40 °C) - 10 s for power circuit
	100 A - 1 s for signalling circuit
	120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
	140 / 100 IIIS for Signaling Ground
Associated Fuse Rating	25 A gG at <= 690 V coordination type 1 for power circuit
	20 A gG at <= 690 V coordination type 2 for power circuit
	10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
[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
	Signaling circuit 600 V OL
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
Power Dissipation Per Pole	0.2 W AC-3
	1.56 W AC-1
	0.2 W AC-3e
Front Cover	With
Interlocking Type	Mechanical
Mounting Support	Rail
	Plate
Standards	CSA C22.2 No 14
otaliaa ao	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	IEC 60335-1
Product Certifications	DNV
	CSA
	CCC
	UL
	GL
	LROS (Lloyds register of shipping)
	BV
	RINA
	GOST
	UKCA
	UNOA

Connections - Terminals	Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end			
	Power circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without			
	cable end Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable			
	end Power circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable			
	end Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid			
	Power circuit screw clamp terminals 10.000.01 in (14 mm²)solid			
	Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)flexible without cable end			
	Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without			
	cable end Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable			
	end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable			
	end			
	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid			
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 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2			
Operating Time	53.5572.45 ms closing			
	1624 ms opening			
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			
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)			
Complementary Coil Technology	Built-in bidirectional peak limiting diode suppressor			
Control Circuit Voltage Limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC			
G	0.71.25 Uc -40140 °F (-4060 °C) operational DC			
	11.25 Uc 140158 °F (6070 °C) operational DC			
Time Constant	28 ms			
Inrush Power In W	5.4 W 68 °F (20 °C))			
Hold-In Power Consumption In W	5.4 W 68 °F (20 °C)			
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 Current	5 mA for signalling circuit			
Minimum Switching Voltage	17 V 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			
Insulation Resistance	> 10 MOhm for signalling circuit			
Environment				
Ip Degree Of Protection	IP20 front face IEC 60529			
Climatic Withstand	IACS E10			
	IEC 60947-1 Annex Q category D			

TH IEC 60068-2-30

Protective Treatment

Pollution Degree

Ambient Air Temperature For Operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating			
Ambient Air Temperature For Storage	-76176 °F (-6080 °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 open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms			
Height	3.03 in (77 mm)			
Width	3.54 in (90 mm)			
Depth	3.74 in (95 mm)			
Net Weight	2.24 lb(US) (1.017 kg)			

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
Gtin	3389110392081
Returnability	Yes
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.74 in (9.5 cm)
Package 1 Width	4.53 in (11.5 cm)
Package 1 Length	5.43 in (13.8 cm)
Package 1 Weight	2.50 lb(US) (1.133 kg)
Unit Type Of Package 2	S02
Number Of Units In Package 2	6
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	15.65 lb(US) (7.098 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	96
Package 3 Height	31.50 in (80.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	270.24 lb(US) (122.58 kg)

Contractual warranty

Warranty

18 months



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



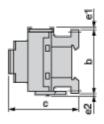
Certifications & Standards

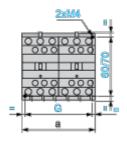
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California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

LC2D09BD

Dimensions Drawings

Dimensions





LC2 or 2 x LC1	а	b	c ⁽¹⁾	e1	e2	G
D09 to D18 (AC)	90	77	86	4	1.5	80
D093 to D123 (AC)	90	99	86	_	_	80
D09 to D18 (DC)	90	77	95	4	1.5	80
D093 to D123 (DC)	90	99	95	-	-	80
D25 to D38 (AC)	90	85	92	9	5	80
D183 to D383 (AC)	90	99	92	_	-	80
D25 to D32 (DC)	90	85	101	9	5	80
D183 to D383 (DC)	90	99	101	_	_	80
1						

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

Connections and Schema

Wiring

