Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 24 V DC coil

LC2D18BD

Product availability: Stock - Normally stocked in distribution

Price*: 425.00 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-1 AC-3 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	18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit			
Motor Power Kw	4 kW at 220230 V AC 50-60 Hz 7.5 kW at 380400 V AC 50-60 Hz 9 kW at 415 V AC 50-60 Hz 9 kW at 440 V AC 50-60 Hz 10 kW at 500 V AC 50-60 Hz 10 kW at 660690 V AC 50-60 Hz			
Motor Power Hp (UI / Csa)	1 hp at 115 V AC 60 Hz for 1 phase motors 3 hp at 230/240 V AC 60 Hz for 1 phase motors 5 hp at 200/208 V AC 60 Hz for 3 phase motors 5 hp at 230/240 V AC 60 Hz for 3 phase motors 10 hp at 460/480 V AC 60 Hz for 3 phase motors 15 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 32 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	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
	300 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	300 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	40 A 104 °F (40 °C) - 10 min for power circuit
Current	84 A 104 °F (40 °C) - 1 min for power circuit
	145 A 104 °F (40 °C) - 10 s for power circuit
	240 A 104 °F (40 °C) - 1 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
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
	50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 32 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
Electrical Durability	1.65 Mcycles 18 A AC-3 <= 440 V
•	1 Mcycles 32 A AC-1 <= 440 V
	1.65 Mcycles 18 A AC-3e <= 440 V
Power Dissipation Per Pole	0.8 W AC-3
	2.5 W AC-1
	0.8 W AC-3e
Front Cover	With
Interlocking Type	Mechanical
Mounting Support	Rail
	Plate
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	DNV
	CSA
	CCC
	UL
	GL
	LROS (Lloyds register of shipping)
	BV
	RINA
	GOST
	UKCA
	5

Connections - Terminals	Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)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				
	Power circuit screw clamp terminals 1 0.000.01 in ² (1.56 mm ²)flexible without cable end				
	Power circuit screw clamp terminals 2 0.000.01 in ² (1.56 mm ²)flexible without cable end				
	Power circuit screw clamp terminals 1 0.000.01 in ² (16 mm ²)flexible with cable end				
	Power circuit screw clamp terminals 2 0.000.01 in ² (14 mm ²)flexible with cable end				
	Power circuit screw clamp terminals 1 0.000.01 in² (1.56 mm²)solid				
	Power circuit screw clamp terminals 2 0.000.01 in² (1.56 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				
-	0.71.25 Uc -40140 °F (-4060 °C) operational DC				
	11.25 Uc 140158 °F (6070 °C) operational DC				
Time Constant	28 ms				

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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	
Protective Treatment	TH IEC 60068-2-30	
Pollution Degree	3	

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	2.29 lb(US) (1.037 kg)			

Ordering and shipping details

Category	US10l1222355	
Discount Schedule	0112	
Gtin	3389110392425	
Returnability	Yes	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.78 in (9.600 cm)
Package 1 Width	4.61 in (11.700 cm)
Package 1 Length	5.59 in (14.200 cm)
Package 1 Weight	2.50 lb(US) (1.133 kg)
Unit Type Of Package 2	S02
Unit Type Of Package 2 Number Of Units In Package 2	\$02 6
Number Of Units In Package 2	6
Number Of Units In Package 2 Package 2 Height	5.91 in (15.000 cm)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

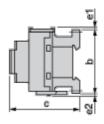
Certifications & Standards

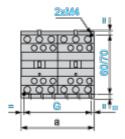
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California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

LC2D18BD

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

e1 and e2: including cabling.

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

Connections and Schema

Wiring

