# **Product data sheet**

Specification





# TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 24 V low consumption DC coil

LC2D25BL

Product availability: Stock - Normally stocked in distribution facility

Price\*: 556.80 USD

#### Main

Range	TeSys
	TeSys Deca
Product name	TeSys D
	TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Resistive load
	Motor control
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	25 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-1 for power circuit
Motor power kW	5.5 kW at 220230 V AC 50-60 Hz
	11 kW at 380400 V AC 50-60 Hz
	11 kW at 415 V AC 50-60 Hz
	11 kW at 440 V AC 50-60 Hz
	15 kW at 500 V AC 50-60 Hz
	15 kW at 660690 V AC 50-60 Hz
motor power HP (UL / CSA)	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
	2 hp at 115 V AC 60 Hz for 1 phase motors
	7.5 hp at 230/240 V AC 60 Hz for 3 phase motors
	15 hp at 460/480 V AC 60 Hz for 3 phase motors
	20 hp at 575/600 V AC 60 Hz for 3 phase motors
Control circuit type	DC low consumption
[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	10 A (at 140 °F (60 °C)) for signalling circuit
current	40 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
	· · ·
	450 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand	50 A 104 °F (40 °C) - 10 min for power circuit
current	120 A 104 °F (40 °C) - 1 min for power circuit
	240 A 104 °F (40 °C) - 10 s for power circuit
	380 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
	63 A gG at <= 690 V coordination type 1 for power circuit
	40 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 40 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 25 A AC-3 <= 440 V
	1.4 Mcycles 40 A AC-1 <= 440 V
	1.65 Mcycles 25 A AC-3e <= 440 V
Power dissipation per pole	1.25 W AC-3
	3.2 W AC-1
	1.25 W AC-3e
Front cover	With
Interlocking type	Mechanical
Mounting Support	Rail
meaning cappert	Plate
Standards	
- Ctandarus	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
	CB

Maximum operating rate	3600 cyc/h 140 °F (60 °C)		
Mechanical durability	30 Mcycles		
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		
Operating time	65.4588.55 ms closing 2030 ms opening		
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 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 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 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2		
	end Power circuit screw clamp terminals 2 0.0020.009 in² (1.56 mm²)flexible with cable end Power circuit screw clamp terminals 1 0.0020.02 in² (1.510 mm²)solid Power circuit screw clamp terminals 2 0.0040.02 in² (2.510 mm²)solid		
	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid Power circuit screw clamp terminals 1 0.0040.02 in² (2.510 mm²)flexible without cable end Power circuit screw clamp terminals 2 0.0040.02 in² (2.510 mm²)flexible without cable end Power circuit screw clamp terminals 1 0.0020.02 in² (110 mm²)flexible with cable		
Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end  Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without cable end		

## Complementary

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			
Time constant	40 ms			
Inrush power in W	2.4 W 68 °F (20 °C))			
Hold-in power consumption in W	2.4 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 closed15 Gn for 11 ms Shocks contactor open8 Gn for 11 ms			
Height	3.3 in (85 mm)			
Width	3.5 in (90 mm)			
Depth	4.0 in (101 mm)			
Net Weight	2.463 lb(US) (1.117 kg)			

# Ordering and shipping details

Category	US10I1222354
Discount Schedule	0112
GTIN	3389110543193
Returnability	Yes
Country of origin	FR

# **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 in (14.0 cm)
Package 1 Width	4.5 in (11.4 cm)
Package 1 Length	4.5 in (11.4 cm)
Package 1 Weight	2.811 lb(US) (1.275 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	14.802 lb(US) (6.714 kg)

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance



Rohs Exemption Information

Yes



Pvc Free

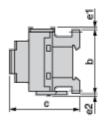
#### **Certifications & Standards**

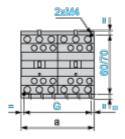
Reach Regulation	REACh Declaration					
Eu Rohs Directive	Compliant with Exemptions					
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.					
Environmental Disclosure	Product Environmental Profile					
Weee	The product must be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

## LC2D25BL

#### **Dimensions Drawings**

#### **Dimensions**





LC2 or 2 x LC1	а	b	c <sup>(1)</sup>	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.

## **Product data sheet**

## LC2D25BL

Connections and Schema

Wiring

