Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 110 V AC coil

LC2D12F7

Product availability: Stock - Normally stocked in distribution

Price*: 364.20 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-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	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit				
Motor Power Kw	3 kW at 220230 V AC 50 Hz 5.5 kW at 380400 V AC 50 Hz 5.5 kW at 415 V AC 50 Hz 5.5 kW at 440 V AC 50 Hz 7.5 kW at 500 V AC 50 Hz 7.5 kW at 660690 V AC 50 Hz				
Motor Power Hp (UI / Csa)	1 hp at 115 V AC 60 Hz for 1 phase motors 2 hp at 230/240 V AC 60 Hz for 1 phase motors 3 hp at 200/208 V AC 60 Hz for 3 phase motors 3 hp at 230/240 V AC 60 Hz for 3 phase motors 7.5 hp at 460/480 V AC 60 Hz for 3 phase motors 10 hp at 575/600 V AC 60 Hz for 3 phase motors				
Control Circuit Type	AC 50/60 Hz				
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz				
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 Current	30 A 104 °F (40 °C) - 10 min for power circuit 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) - 1 s for power circuit 210 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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit				
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				
Electrical Durability	2 Mcycles 12 A AC-3 <= 440 V 0.8 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 12 A AC-3e <= 440 V				
Power Dissipation Per Pole	1.56 W AC-1 0.36 W AC-3 0.36 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 60947-5-1 UL 508 IEC 60335-1				
Product Certifications	DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA				

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 2 0.000.01 in² (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 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
Operating Time	1222 ms closing
	419 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	15 Mcycles

Complementary

Coil Technology	Without built-in suppressor module		
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz		
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))		
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))		
Heat Dissipation	23 W 50/60 Hz		
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 3.39 in (86 mm)		
Net Weight	1.54 lb(US) (0.697 kg)	

Ordering and shipping details

Category	US10I1222354	
Discount Schedule	0112	
Gtin	3389110385786	
Returnability	Yes	
Country Of Origin	ID	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.45 in (11.300 cm)
Package 1 Width	3.74 in (9.500 cm)
Package 1 Length	5.51 in (14.000 cm)
Package 1 Weight	28.43 oz (806.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	6
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	11.49 lb(US) (5.210 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

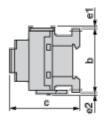
Certifications & Standards

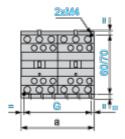
Reach Regulation	REACh Declaration			
Eu Rohs Directive	Compliant EU RoHS Declaration			
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)			
Environmental Disclosure	Product Environmental Profile			
Weee	The product must be disposed on European 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			

LC2D12F7

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

