Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 220 V AC coil

LC2D18M7

Product availability: Stock - Normally stocked in distribution

Price*: 416.16 USD

Main

Range	TeSys TeSys Deca				
Product Name	TeSys Deca 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	AC 50/60 Hz				
[Uc] Control Circuit Voltage	220 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 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
5	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	Plate
	Rail
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

s 2 0.000.01 in² (14 mm²)flexible without
s 1 0.000.01 in² (14 mm²)flexible with cable
s 2 0.000.00 in² (12.5 mm²)flexible with cable
s 1 0.000.01 in² (14 mm²)solid
s 2 0.000.01 in² (14 mm²)solid
1 0.000.01 in ² (1.56 mm ²)flexible without
2 0.000.01 in² (1.56 mm²)flexible without
1 0.000.01 in² (16 mm²)flexible with cable
2 0.000.01 in² (14 mm²)flexible with cable
1 0.000.01 in² (1.56 mm²)solid
2 0.000.01 in² (1.56 mm²)solid
crew clamp terminals flat Ø 6 mm
crew clamp terminals Philips No 2
screw clamp terminals flat Ø 6 mm
screw clamp terminals Philips No 2
screw clamp terminals pozidriv No 2
crew clamp terminals pozidriv No 2
th nominal load EN/ISO 13849-1
vith mechanical load EN/ISO 13849-1

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	1.56 lb(US) (0.707 kg)			

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
Gtin	3389110386462
Returnability	Yes
Country Of Origin	ID

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	5.51 in (14 cm)
Package 1 Width	3.70 in (9.4 cm)
Package 1 Length	4.49 in (11.4 cm)
Package 1 Weight	28.47 oz (807 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	6
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	11.48 lb(US) (5.209 kg)

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

Well-being performance

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

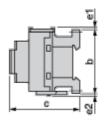
Certifications & Standards

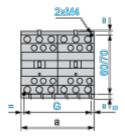
Reach Regulation REACh Declaration					
Eu Rohs Directive	Compliant EU RoHS Declaration				
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on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

LC2D18M7

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

