Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 48 V AC coil

LC2D25E7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 462.12 USD

Main

Range	TeSys TeSys Deca					
Due divet Name	•					
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	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 (UI / 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	AC 50/60 Hz					
[Uc] Control Circuit Voltage	48 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 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 Current	50 A 104 °F (40 °C) - 10 min for power circuit 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 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 CB				

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 in ² (14 mm ²)solid					
	Power circuit screw clamp terminals 1 0.000.02 in² (2.510 mm²)flexible without cable end					
	Power circuit screw clamp terminals 2 0.000.02 in ² (2.510 mm ²)flexible without cable end					
	Power circuit screw clamp terminals 1 0.000.02 in ² (110 mm ²)flexible with cable end					
	Power circuit screw clamp terminals 2 0.000.01 in² (1.56 mm²)flexible with cable end					
	Power circuit screw clamp terminals 1 0.000.02 in ² (1.510 mm ²)solid					
	Power circuit screw clamp terminals 2 0.000.02 in² (2.510 mm²)solid					
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 22.13 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm					
	Power circuit 22.13 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 22.13 lbf.in (2.5 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					
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)					

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 closed15 Gn for 11 ms Shocks contactor open8 Gn for 11 ms				
Height	3.35 in (85 mm)				
Width	3.54 in (90 mm)				
Depth	3.62 in (92 mm)				
Net Weight	1.74 lb(US) (0.787 kg)				

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
Gtin	3389110386776
Returnability	No
Country Of Origin	FR

Packing Units

in (11.300 cm)
in (11.300 cm)
in (14.000 cm)
0 oz (947.000 g)
in (15.000 cm)
1 in (30.000 cm)
5 in (40.000 cm)
8 lb(US) (5.073 kg)
3 in (75.000 cm)
2 in (60.000 cm)
0 in (80.000 cm)
58 lb(US) (89.168 kg)

Contractual warranty

Warranty

Apr 24, 2024

18 months

Sustainability Green Premium

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.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Reach Free Of Svhc



Pvc Free

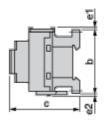
Certifications & Standards

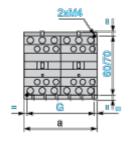
Reach Regulation	REACh Declaration Compliant				
Eu Rohs Directive					
	EU RoHS Declaration				
China Rohs Regulation	China RoHS declaration				
	Pro-active China RoHS declaration (out of China RoHS legal scope)				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be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

LC2D25E7

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

