Product datasheet

Specifications





Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 9A, 110V AC 50/60Hz coil, screw clamp terminals

LC2D09F7

Main

Mann						
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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit					
Motor Power Kw	2.2 kW at 220230 V AC 5060 Hz 4 kW at 380400 V AC 5060 Hz 4 kW at 415 V AC 5060 Hz 4 kW at 440 V AC 5060 Hz 5.5 kW at 500 V AC 5060 Hz 5.5 kW at 660690 V AC 5060 Hz					
Motor Power Hp (UI / Csa)	0.5 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phases motors 2 hp at 230/240 V AC 60 Hz for 3 phases motors 5 hp at 460/480 V AC 60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 60 Hz for 3 phases motors					
Control Circuit Type	AC at 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 conforming to IEC 60947					
Overvoltage Category	III					
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 25 A (at 60 °C) for power circuit					
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 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 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	25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1				
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit				
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified				
Electrical Durability	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V				
Power Dissipation Per Pole	0.2 W AC-3 1.56 W AC-1 0.2 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				
Connections - Terminals	Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm²solid Power circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid				
Tightening Torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2				
Operating Time	1222 ms closing 419 ms opening				
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1				

Mechanical Durability	15 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

Complementary

Coil Technology	Without built-in suppressor module		
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz		
	0.81.1 Uc (-4060 °C):operational AC 50 Hz		
	0.851.1 Uc (-4060 °C):operational AC 60 Hz		
	11.1 Uc (6070 °C):operational AC 50/60 Hz		
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 20 °C)		
	70 VA 50 Hz cos phi 0.75 (at 20 °C)		
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 20 °C)		
	7 VA 50 Hz cos phi 0.3 (at 20 °C)		
Heat Dissipation	23 W at 50/60 Hz		
Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1		
	type mirror contact 1 NC conforming to 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 conforming to IEC 60529				
Climatic Withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D				
Protective Treatment	TH conforming to IEC 60068-2-30				
Pollution Degree	3				
Ambient Air Temperature For Operation	-4060 °C 6070 °C with derating				
Ambient Air Temperature For Storage	-6080 °C				
Operating Altitude	03000 m				
Fire Resistance	850 °C conforming to IEC 60695-2-1				
Flame Retardance	V1 conforming to UL 94				
Mechanical Robustness	Vibrations contactor open: 2 Gn, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor open: 10 Gn for 11 ms Shocks contactor closed: 15 Gn for 11 ms				
Height	77 mm				
Width	90 mm				
Depth	86 mm				
Net Weight	0.687 kg				

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	11.300 cm
Package 1 Width	9.500 cm
Package 1 Length	13.500 cm
Package 1 Weight	810.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	6
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.203 kg

Contractual warranty

Warranty

18 months

Sustainability Screen 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.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

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

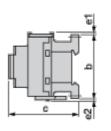
Certifications & Standards

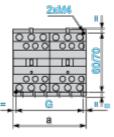
Reach Regulation	REACh Declaration				
Eu Rohs Directive	Compliant EU RoHS Declaration				
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)				
Environmental Disclosure	Product Environmental Profile				
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins				
Circularity Profile	End of Life Information				

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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.						

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Connections and Schema

Wiring

