Specifications



Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 12A, 24V DC coil, with electrical interlocking, screw clamp terminals

LC2D12BD

Main

IVIAIII					
Range	TeSys TeSys Deca				
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 <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 12 A (at <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 (Ul / 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 phases motors 3 hp at 230/240 V AC 60 Hz for 3 phases motors 7.5 hp at 460/480 V AC 60 Hz for 3 phases motors 10 hp at 575/600 V AC 60 Hz for 3 phases motors				
Control Circuit Type	DC standard				
[Uc] Control Circuit Voltage	24 V DC				
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	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 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	2 Mcycles 12 A AC-3 at Ue <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 12 A AC-3e at Ue <= 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	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				
Connections - Terminals	Power circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 12 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 14 mm ² solid Power circuit: screw clamp terminals 2 cable(s) 14 mm ² solid Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm ² solid Control circuit: screw clamp terminals 2 cable(s) 14 mm ² solid				
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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2				
Operating Time	53.5572.45 ms closing 1624 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	30 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC				
Control Circuit Voltage Limits					
Time Constant	28 ms				
Inrush Power In W	5.4 W (at 20 °C)				
Hold-In Power Consumption In W	5.4 W at 20 °C				
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	95 mm				
Net Weight	1.027 kg				

Packing Units

Unit Type Of Package 1

Number O	f Units In	Package 1
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PCE

Package 1 Height	9.500 cm
Package 1 Width	11.500 cm
Package 1 Length	14.000 cm
Package 1 Weight	1.131 kg
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	7.054 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	96
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	120.864 kg

Contractual warranty

Warranty

18 months

Sustainability

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 >



Eq

Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
Pvc Free

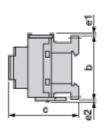
Certifications & Standards

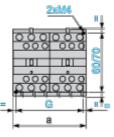
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California 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

Product data sheet

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.						

Product data sheet

Connections and Schema

Wiring

