Product data sheet

Specifications



TeSys Deca reversing contactor -3P(3 NO) - AC-3 - <= 440 V 12 A -220 V DC coil

LC2D12MD

() Discontinued on: Oct 8, 2021

① Discontinued

Main

Mann	
Range	TeSys
Product Name	TeSys Deca
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-3 AC-1
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
Motor Power Kw	3 kW at 220230 V AC 50 Hz 5.5 kW at 380400 V AC 50 Hz 5.5 kW at 415440 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	DC standard
[Uc] Control Circuit Voltage	220 V DC
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
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

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

[Icw] Rated Short-Time Withstand	30 A 104 °F (40 °C) - 10 min for power circuit
Current	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
	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 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
Power Dissipation Per Pole	1.56 W AC-1
	0.36 W AC-3
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
Product Certifications	LROS (Lloyds register of shipping)
	GOST UL
	DNV
	RINA
	GL
	BV CSA
	ccc
Connections - Terminals	Power circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)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 in ² (14 mm ²)flexible with cable end
	Power circuit screw clamp terminals 2 0.000.00 in ² (12.5 mm ²)flexible with cable end
	Power circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)solid
	Power circuit screw clamp terminals 2 0.000.01 in ² (14 mm ²)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 in ² (14 mm ²)flexible without cable end
	Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)flexible with cable end
	Control circuit screw clamp terminals 2 0.000.00 in ² (12.5 mm ²)flexible with cable end
	Control circuit screw clamp terminals 1 0.000.01 in ² (14 mm ²)solid Control circuit screw clamp terminals 2 0.000.01 in ² (14 mm ²)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
Operating Time	53.5572.45 ms closing
	1624 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	30 Mcycles
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC 0.71.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Time Constant	28 ms
Inrush Power In W	5.4 W 68 °F (20 °C))
Hold-In Power Consumption In W	5.4 W 68 °F (20 °C)
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	3.74 in (95 mm)
Net Weight	2.26 lb(US) (1.027 kg)

Ordering and shipping details

Category	22355-CTR,TESYS D,OPEN,9-38A DC
Discount Schedule	112

Gtin	3389110392340
Returnability	No

Packing Units

•	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.70 in (9.4 cm)
Package 1 Width	4.49 in (11.4 cm)
Package 1 Length	4.33 in (11 cm)
Package 1 Weight	25.75 oz (730 g)

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 >



RoHS/REACh

Well-being performance

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

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration
	Pro-active China RoHS declaration (out of China RoHS legal scope)
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.