# Product data sheet

Specifications



### TeSys Deca reversing contactor -3P(3 NO) - AC-3 - <= 440 V 12 A -24 V AC coil

LC2D123B7

() Discontinued on: Oct 8, 2021

① Discontinued

#### Main

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	16 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	AC 50/60 Hz
[Uc] Control Circuit Voltage	24 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	16 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling 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.

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[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 16 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 Moveles 12 A AC 3 <= 140 V
	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	Plate
	Rail
Standards	CSA C22.2 No 14
Stanuarus	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1 UL 508
Product Certifications	DNV
	CSA
	GOST
	UL
	LROS (Lloyds register of shipping)
	CCC
	RINA
	GL
	BV
Connections - Terminals	Power circuit spring terminals 1 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> )flexible without cable end
	Power circuit spring terminals 2 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> )flexible without cable end
	Control circuit spring terminals 1 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> )flexible without cable end
	Control circuit spring terminals 2 0.00 in <sup>2</sup> (2.5 mm <sup>2</sup> )flexible without cable end
Operating Time	1222 ms closing
	419 ms opening
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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
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Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)
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### 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

IP20 front face IEC 60529
IACS E10 IEC 60947-1 Annex Q category D
TH IEC 60068-2-30
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-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
-76176 °F (-6080 °C)
09842.52 ft (03000 m)
1562 °F (850 °C) IEC 60695-2-1
V1 conforming to UL 94
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
3.90 in (99 mm)
3.54 in (90 mm)
3.39 in (86 mm)
1.54 lb(US) (0.697 kg)

## Ordering and shipping details

Category	22354-CTR,TESYS D,OPEN,9-38A AC
Discount Schedule	112
Gtin	3389110660388
Returnability	No
Country Of Origin	FR

### **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.69 in (11.9 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 Premium<sup>TM</sup> 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-CO<sub>2</sub> 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.
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