

# Product data sheet

Specifications



## TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 110 V AC coil

LC2D65AF7

**Product availability: Stock - Normally stocked in distribution facility**

**Price\*: 985.32 USD**

### Main

<b>Range</b>	TeSys TeSys Deca
<b>Product Name</b>	TeSys D TeSys Deca
<b>Product Or Component Type</b>	Reversing contactor
<b>Device Short Name</b>	LC2D
<b>Contactors Application</b>	Motor control Resistive load
<b>Utilisation Category</b>	AC-3 AC-1 AC-3e
<b>Device Presentation</b>	Preassembled with reversing power busbar
<b>Poles Description</b>	3P
<b>Power Pole Contact Composition</b>	3 NO
<b>[Ue] Rated Operational Voltage</b>	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
<b>[Ie] Rated Operational Current</b>	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
<b>Motor Power Kw</b>	18.5 kW at 220...230 V AC 50 Hz 30 kW at 380...400 V AC 50 Hz 37 kW at 415...440 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660...690 V AC 50 Hz
<b>Motor Power Hp (UI / Csa)</b>	40 hp at 460/480 V AC 60 Hz for 3 phase motors 5 hp at 115 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phase motors 20 hp at 230/240 V AC 60 Hz for 3 phase motors 50 hp at 575/600 V AC 60 Hz for 3 phase motors
<b>Control Circuit Type</b>	AC 50/60 Hz
<b>[Uc] Control Circuit Voltage</b>	110 V AC 50/60 Hz
<b>Auxiliary Contact Composition</b>	1 NO + 1 NC
<b>[Uimp] Rated Impulse Withstand Voltage</b>	6 kV IEC 60947
<b>Overvoltage Category</b>	III
<b>[Ith] Conventional Free Air Thermal Current</b>	10 A (at 140 °F (60 °C)) for signalling circuit 80 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.

<b>Irms Rated Making Capacity</b>	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V for power circuit conforming to IEC 60947
<b>Rated Breaking Capacity</b>	1000 A at 440 V for power circuit conforming to IEC 60947
<b>[Icw] Rated Short-Time Withstand Current</b>	520 A 104 °F (40 °C) - 10 s for power circuit 900 A 104 °F (40 °C) - 1 s for power circuit 110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
<b>Associated Fuse Rating</b>	10 A gG for signalling circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
<b>Average Impedance</b>	1.5 mOhm - lth 80 A 50 Hz for power circuit
<b>[Ui] Rated Insulation Voltage</b>	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
<b>Electrical Durability</b>	1.45 Mcycles 65 A AC-3 <= 440 V 1.4 Mcycles 80 A AC-1 <= 440 V 1.45 Mcycles 65 A AC-3e <= 440 V
<b>Power Dissipation Per Pole</b>	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e
<b>Front Cover</b>	With
<b>Interlocking Type</b>	Mechanical
<b>Mounting Support</b>	Plate Rail
<b>Standards</b>	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
<b>Product Certifications</b>	UL CSA RINA GOST CCC DNV LROS (Lloyds register of shipping) GL BV UKCA

<b>Connections - Terminals</b>	Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid Control circuit screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid Power circuit EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible without cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible without cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )flexible with cable end Power circuit EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )flexible with cable end Power circuit EverLink BTR screw connectors 1 0.00...0.05 in <sup>2</sup> (1...35 mm <sup>2</sup> )solid Power circuit EverLink BTR screw connectors 2 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> )solid
<b>Tightening Torque</b>	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 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in <sup>2</sup> (25...35 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.00...0.04 in <sup>2</sup> (1...25 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm) 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
<b>Operating Time</b>	4...19 ms opening 12...26 ms closing
<b>Safety Reliability Level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical Durability</b>	6 Mcycles
<b>Maximum Operating Rate</b>	3600 cyc/h 140 °F (60 °C)

## Complementary

<b>Coil Technology</b>	Without built-in suppressor module
<b>Control Circuit Voltage Limits</b>	0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 Hz 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50 Hz 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60 Hz 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60 Hz
<b>Inrush Power In Va</b>	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
<b>Hold-In Power Consumption In Va</b>	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
<b>Heat Dissipation</b>	4...5 W 50/60 Hz
<b>Auxiliary Contacts Type</b>	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
<b>Signalling Circuit Frequency</b>	25...400 Hz
<b>Minimum Switching Current</b>	5 mA for signalling circuit
<b>Minimum Switching Voltage</b>	17 V for signalling circuit
<b>Non-Overlap Time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Insulation Resistance</b>	> 10 MOhm for signalling circuit

## Environment

<b>IP Degree Of Protection</b>	IP20 front face IEC 60529
<b>Climatic Withstand</b>	IACS E10 IEC 60947-1 Annex Q category D

<b>Protective Treatment</b>	TH IEC 60068-2-30
<b>Pollution Degree</b>	3
<b>Ambient Air Temperature For Operation</b>	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
<b>Ambient Air Temperature For Storage</b>	-76...176 °F (-60...80 °C)
<b>Operating Altitude</b>	0...9842.52 ft (0...3000 m)
<b>Fire Resistance</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Flame Retardance</b>	V1 conforming to UL 94
<b>Mechanical Robustness</b>	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
<b>Height</b>	4.80 in (122 mm)
<b>Width</b>	4.69 in (119 mm)
<b>Depth</b>	4.72 in (120 mm)
<b>Net Weight</b>	4.17 lb(US) (1.89 kg)

## Ordering and shipping details

<b>Category</b>	US10I1222357
<b>Discount Schedule</b>	0I12
<b>Gtin</b>	3389119409636
<b>Returnability</b>	Yes
<b>Country Of Origin</b>	FR

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	5.51 in (14.000 cm)
<b>Package 1 Width</b>	6.38 in (16.200 cm)
<b>Package 1 Length</b>	7.80 in (19.800 cm)
<b>Package 1 Weight</b>	4.59 lb(US) (2.081 kg)
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	4
<b>Package 2 Height</b>	11.81 in (30.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	19.44 lb(US) (8.819 kg)
<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	16
<b>Package 3 Height</b>	17.72 in (45.000 cm)
<b>Package 3 Width</b>	23.62 in (60.000 cm)
<b>Package 3 Length</b>	31.50 in (80.000 cm)
<b>Package 3 Weight</b>	95.41 lb(US) (43.276 kg)

# Contractual warranty

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Warranty

18 months

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class 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 >](#)



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](#)

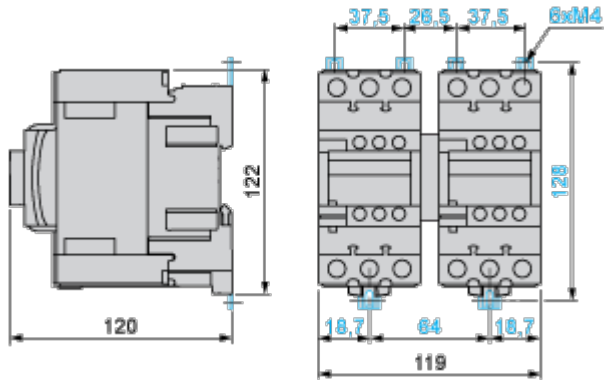
**California Proposition 65**

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](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions

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Connections and Schema

Wiring

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