

# Product data sheet

Specifications



## Changeover contactor, TeSys Deca, 4P(4 NO), AC-1, <= 440 V 125 A - 600 V AC coil

LC2D80004X6

⚠ Discontinued

### Main

Range	TeSys
Product name	TeSys Deca
Product or Component Type	Changeover contactor
Device short name	LC2D
Contactor application	Resistive load
Utilisation category	AC-1 AC-3 AC-3e AC-4
Device presentation	Preassembled, with prewired power connections
Poles description	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz Power circuit <= 300 V DC
[Ie] rated operational current	125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 55 A (at <140 °F (60 °C)) at <= 400 V AC AC-4 for power circuit
Control circuit type	AC 60 Hz
[Uc] control circuit voltage	600 V AC 60 Hz
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	125 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	1100 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	135 A 104 °F (40 °C) - 10 min for power circuit 320 A 104 °F (40 °C) - 1 min for power circuit 640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit
Associated fuse rating	200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V

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

<b>Power dissipation per pole</b>	12.5 W AC-1
<b>Front cover</b>	Without
<b>Interlocking type</b>	Mechanical
<b>Mounting Support</b>	Rail Plate
<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
<b>Product Certifications</b>	UL RINA CCC GOST DNV LROS (Lloyds register of shipping) BV GL CSA
<b>Connections - terminals</b>	Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid Control circuit screw clamp terminals 1 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end Power circuit connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible without cable end Power circuit connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )flexible without cable end Power circuit connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )flexible with cable end Power circuit connector 2 0.006...0.02 in <sup>2</sup> (4...16 mm <sup>2</sup> )flexible with cable end Power circuit connector 1 0.006...0.08 in <sup>2</sup> (4...50 mm <sup>2</sup> )solid Power circuit connector 2 0.006...0.04 in <sup>2</sup> (4...25 mm <sup>2</sup> )solid
<b>Tightening torque</b>	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector flat Ø 6 to Ø 8 mm Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm)
<b>Operating time</b>	20...35 ms closing 6...20 ms opening
<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>	10 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>	0.85...1.1 Uc (-40...131 °F (-40...55 °C)):operational AC 60 Hz 0.3...0.6 Uc (-40...158 °F (-40...70 °C)):drop-out AC 60 Hz 1...1.1 Uc (131...158 °F (55...70 °C)):operational AC 60 Hz
<b>Inrush power in VA</b>	220 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
<b>Heat dissipation</b>	6...10 W 60 Hz

## Environment

<b>IP degree of protection</b>	IP20 front face IEC 60529
<b>Climatic withstand</b>	IACS E10

<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 Shocks contactor open8 Gn for 11 ms Vibrations contactor closed3 Gn, 5...300 Hz Shocks contactor closed10 Gn for 11 ms
<b>Height</b>	5 in (127 mm)
<b>Width</b>	8.1 in (207 mm)
<b>Depth</b>	6.2 in (158 mm)
<b>Net Weight</b>	7.05 lb(US) (3.2 kg)

## Ordering and shipping details

<b>Category</b>	22359-CTR, TESYS D, OPEN, 80-150A AC&DC
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110086911
<b>Returnability</b>	No

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	18
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## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Use Better



#### Materials and Substances

[EU RoHS Directive](#)

Compliant

PVC free

Yes

### Use Longer



#### Lifetime extension

Repair

No

### Use Again



#### Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.