

Product data sheet

Specifications



Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 40A, 120V AC 60Hz coil

LC2D40G7

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
Contactors application	Motor control
Utilisation category	AC-4 AC-2 AC-3
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	Power circuit 40 A AC AC-3 140 °F (60 °C))
Motor power kW	11 kW 220...240 V AC 50/60 Hz 22 kW 415 V AC 50/60 Hz 22 kW 440 V AC 50/60 Hz 22 kW 500 V AC 50/60 Hz 30 kW 660...690 V AC 50/60 Hz 18.5 kW 380...400 V AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 60 Hz

Connections - terminals	Control circuit 1 0.002...0.006 in ² (1...4 mm ²)flexible with cable end Control circuit 1 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit 1 0.002...0.006 in ² (1...4 mm ²)solid without cable end Control circuit 2 0.002...0.004 in ² (1...2.5 mm ²)flexible with cable end Control circuit 2 0.002...0.006 in ² (1...4 mm ²)flexible without cable end Control circuit 2 0.002...0.006 in ² (1...4 mm ²)solid without cable end Power circuit 1 0.002...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit 1 0.002...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit 1 0.002...0.05 in ² (1...35 mm ²)solid without cable end Power circuit 2 0.002...0.04 in ² (1...25 mm ²)flexible with cable end Power circuit 2 0.002...0.04 in ² (1...25 mm ²)flexible without cable end Power circuit 2 0.002...0.04 in ² (1...25 mm ²)solid without cable end Power circuit 2 0.002...0.05 in ² (1...35 mm ²)flexible with cable end Power circuit 2 0.002...0.05 in ² (1...35 mm ²)flexible without cable end Power circuit 2 0.002...0.05 in ² (1...35 mm ²)solid without cable end
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Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC

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

Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <140 °F (60 °C)) Operational: 0.8...1.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.85...1.1 Uc at 60 Hz (at <140 °F (60 °C))
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	III
Mounting Support	Rail Plate
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) 0.002...0.004 in ² (1...2.5 mm ²) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.002...0.004 in ² (1...2.5 mm ²) Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) 0.002...0.006 in ² (1...4 mm ²) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.002...0.006 in ² (1...4 mm ²) Philips No 2 Power circuit 44.3 lbf.in (5 N.m) 0.002...0.04 in ² (1...25 mm ²) hexagonal Power circuit 70.8 lbf.in (8 N.m) 0.002...0.05 in ² (1...35 mm ²) hexagonal
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25...400 Hz
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for control circuit 60 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	- Ith 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 - Ith 60 A
Inrush power in VA	200 VA cos phi 0.75 (at 68 °F (20 °C)) 220 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Operating time	12...26 ms closing 4...19 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	6000000 cycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Insulation resistance	> 10 MOhm for control circuit
Height	5.2 in (132 mm)
Width	6.5 in (165 mm)
Depth	5.6 in (142 mm)

Net Weight	5.3 lb(US) (2.4 kg)
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Environment

Standards	CSA C22.2 No 14 IEC 60947-4-1 EN 60947-4-1 UL 508 IEC 60947-5-1 EN 60947-5-1
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Product Certifications	GOST CCC GL LROS (Lloyds register of shipping) BV UL DNV RINA CSA
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IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
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Protective treatment	TH 3)IEC 60068
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Ambient Air Temperature for Operation	23...140 °F (-5...60 °C)
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Ambient Air Temperature for Storage	-76...176 °F (-60...80 °C)
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Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
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Operating altitude	9842.52 ft (3000 m) without derating
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Fire resistance	1562 °F (850 °C) IEC 60695-2-1
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Shock resistance	10 gn contactor closed 8 gn contactor opened
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Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
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Heat dissipation	6...10 W at 50/60 Hz for control circuit
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Ordering and shipping details

Category	US10I1222357
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Discount Schedule	0I12
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GTIN	3389110455250
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Returnability	Yes
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Country of origin	CZ
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Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	1
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Package 1 Height	7.500 in (19.050 cm)
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Package 1 Width	7.500 in (19.050 cm)
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Package 1 Length	10.000 in (25.400 cm)
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Package weight(Lbs)	7.101 lb(US) (3.221 kg)
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Unit Type of Package 2	CAR
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Number of Units in Package 2	2
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Package 2 Height	11.500 in (29.210 cm)
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Package 2 Width	11.800 in (29.972 cm)
Package 2 Length	15.800 in (40.132 cm)
Package 2 Weight	15.190 lb(US) (6.890 kg)

Contractual warranty

Warranty	18 months
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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 >](#)

Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	124
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACH Regulation	REACH Declaration
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
PVC free	Yes

Use Again

Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.