

# Product data sheet

## Characteristics

# LC2D40G7

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



## Main

Range of product	TeSys Deca
Product or component type	Reversing contactor
Device short name	LC2D
Contactor 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 (at <60 °C)
Motor power kW	11 kW at 220...240 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660...690 V AC 50/60 Hz 18.5 kW at 380...400 V AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 60 Hz
Connections - terminals	Control circuit: 1 cable(s) 1...4 mm²flexible with cable end Control circuit: 1 cable(s) 1...4 mm²flexible without cable end Control circuit: 1 cable(s) 1...4 mm²solid without cable end Control circuit: 2 cable(s) 1...2.5 mm²flexible with cable end Control circuit: 2 cable(s) 1...4 mm²flexible without cable end Control circuit: 2 cable(s) 1...4 mm²solid without cable end Power circuit: 1 cable(s) 1...35 mm²flexible with cable end Power circuit: 1 cable(s) 1...35 mm²flexible without cable end Power circuit: 1 cable(s) 1...35 mm²solid without cable end Power circuit: 2 cable(s) 1...25 mm²flexible with cable end Power circuit: 2 cable(s) 1...25 mm²flexible without cable end Power circuit: 2 cable(s) 1...25 mm²solid without cable end Power circuit: 2 cable(s) 1...35 mm²flexible with cable end Power circuit: 2 cable(s) 1...35 mm²flexible without cable end Power circuit: 2 cable(s) 1...35 mm²solid without cable end

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## Complementary

Assembly style	Ready assembled
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Protective cover	With
Auxiliary contacts type	Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 Type mirror contact 1 NC conforming to IEC 60947-4-1
Auxiliary contact composition	1 NO + 1 NC
Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: 0.3...0.6 U <sub>c</sub> at 50/60 Hz (at <60 °C) Operational: 0.8...1.1 U <sub>c</sub> at 50 Hz (at <60 °C) Operational: 0.85...1.1 U <sub>c</sub> at 60 Hz (at <60 °C)
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
Mounting support	Rail Plate
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit: 1.7 N.m - cable 1...2.5 mm <sup>2</sup> - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1...2.5 mm <sup>2</sup> - with screwdriver Philips No 2 Control circuit: 1.7 N.m - cable 1...4 mm <sup>2</sup> - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - cable 1...4 mm <sup>2</sup> - with screwdriver Philips No 2 Power circuit: 5 N.m - cable 1...25 mm <sup>2</sup> hexagonal screw head Power circuit: 8 N.m - cable 1...35 mm <sup>2</sup> hexagonal screw head
[Ue] rated operational voltage	Power circuit: ≤ 1000 V AC 25...400 Hz
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 60 A (at 60 °C) for power circuit
I <sub>rms</sub> 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	- I <sub>th</sub> 60 A 50 Hz for power circuit
Power dissipation per pole	2.4 W AC-3 - I <sub>th</sub> 60 A
Inrush power in VA	200 VA cos phi 0.75 (at 20 °C) 220 VA cos phi 0.75 (at 20 °C)
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 20 °C) 22 VA 60 Hz cos phi 0.3 (at 20 °C) 26 VA 50 Hz cos phi 0.3 (at 20 °C) 26 VA 60 Hz cos phi 0.3 (at 20 °C)
Operating time	12...26 ms closing 4...19 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	6000000 cycles
Maximum operating rate	3600 cyc/h 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	132 mm
Width	165 mm
Depth	142 mm
Net weight	2.4 kg






## 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
Product certifications	GOST[RETURN]CCC[RETURN]GL[RETURN]LROS (Lloyds register of shipping) [RETURN]BV[RETURN]UL[RETURN]DNV[RETURN]RINA[RETURN]CSA
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Protective treatment	TH (pollution degree 3) conforming to IEC 60068
Ambient air temperature for operation	-5...60 °C
Ambient air temperature for storage	-60...80 °C
Permissible ambient air temperature around the device	-40...70 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Shock resistance	10 gn contactor closed 8 gn contactor opened
Vibration resistance	2 gn 5...300 Hz contactor opened 4 gn 5...300 Hz contactor closed
Heat dissipation	6...10 W at 50/60 Hz for control circuit

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	17.0 cm
Package 1 Width	18.0 cm
Package 1 Length	24.8 cm
Package 1 Weight	3.285 kg

## Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	 <a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
EU RoHS Directive	Compliant  <a href="#">EU RoHS Declaration</a>
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	 <a href="#">China RoHS Declaration</a>
RoHS exemption information	 <a href="#">Yes</a>
Environmental Disclosure	 <a href="#">Product Environmental Profile</a>
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes

## Contractual warranty

Warranty	18 months
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