

# LC2D40G7

reversing contactor - 575 V AC 40 A - IEC



## Main

Range of product	TeSys D
Product or component type	Reversing contactor
Device short name	LC2D
Contacteur application	Motor control
Utilisation category	AC-2 AC-3 AC-4
Control circuit type	AC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	40 A (<= 60 °C) AC network AC-3 for power circuit
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 50/60 Hz
Connections - terminals	Control circuit : screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screwclamp terminal 1 cable 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Control circuit : screwclamp terminal 2 cable 1...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Control circuit : screwclamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Control circuit : screwclamp terminal 2 cable 1...4 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screwclamp terminal 1 cable 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screwclamp terminal 1 cable 1...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screwclamp terminal 1 cable 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screwclamp terminal 2 cable 1...25 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screwclamp terminal 2 cable 1...25 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screwclamp terminal 2 cable 1...25 mm <sup>2</sup> - cable stiffness: solid - without cable end Power circuit : screwclamp terminal 2 cable 1...35 mm <sup>2</sup> - cable stiffness: flexible - with cable end Power circuit : screwclamp terminal 2 cable 1...35 mm <sup>2</sup> - cable stiffness: flexible - without cable end Power circuit : screwclamp terminal 2 cable 1...35 mm <sup>2</sup> - cable stiffness: solid - without cable end

## 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	0.3...0.6 U <sub>c</sub> at 60 °C drop-out 50/60 Hz 0.8...1.1 U <sub>c</sub> at 60 °C operational 50 Hz 0.85...1.1 U <sub>c</sub> at 60 °C operational 60 Hz
[Ui] rated insulation voltage	600 V for control circuit certifications CSA 600 V for control circuit certifications UL 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for control circuit conforming to IEC 60947-1 690 V for power circuit conforming to IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
Overvoltage category	III
Mounting support	Plate Rail
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit : 1.7 N.m - on screwclamp terminal - cable 1...2.5 mm <sup>2</sup> - with screwdriver flat Ø 6 mm Control circuit : 1.7 N.m - on screwclamp terminal - cable 1...2.5 mm <sup>2</sup> - with screwdriver Philips No 2 Power circuit : 5 N.m - on screwclamp terminal - cable 1...25 mm <sup>2</sup> hexagonal Control circuit : 1.7 N.m - on screwclamp terminal - cable 1...4 mm <sup>2</sup> - with screwdriver Philips No 2 Control circuit : 1.7 N.m - on screwclamp terminal - cable 1...4 mm <sup>2</sup> - with screwdriver flat Ø 6 mm Power circuit : 8 N.m - on screwclamp terminal - cable 1...35 mm <sup>2</sup> hexagonal
[Ue] rated operational voltage	<= 1000 V AC 25...400 Hz for power circuit
[Ith] conventional free air thermal current	10 A at <= 60 °C for control circuit 60 A at <= 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	At 50 Hz - Ith 60 A for power circuit
Power dissipation per pole	2.4 W AC-3 - Ith 60 A
Inrush power in VA	200 VA at 20 °C (cos φ: 0.75) 220 VA at 20 °C (cos φ: 0.75)
Hold-in power consumption in VA	20 VA at 20 °C (cos f 0.3) 50 Hz 22 VA at 20 °C (cos f 0.3) 60 Hz 26 VA at 20 °C (cos f 0.3) 50 Hz 26 VA at 20 °C (cos f 0.3) 60 Hz
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
Operating rate	3600 cyc/h at <= 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
Product weight	2.4 kg

## Environment

standards EN 60947-4-1

EN 60947-5-1  
IEC 60947-4-1  
IEC 60947-5-1  
UL 508  
CSA C22.2 No 14

product certifications	BV CCC CSA DNV GL GOST LROS (Lloyds register of shipping) RINA UL
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 U <sub>c</sub>
operating altitude	3000 m without derating in temperature
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

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0847 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available