

# Reversing contactor, TeSys Deca, 3P(3 NO) - AC-3 - <= 440 V 80 A - 380 V AC coil

LC2D80Q7

! Discontinued on: 10-Oct-2020

! End-of-service on: 04-Nov-2020

## ① Discontinued

Main			
Range	TeSys		
Product Name	TeSys Deca		
Product Or Component Type	Reversing contactor		
Device Short Name	LC2D		
Contactor Application	Resistive load Motor control		
Utilisation Category	AC-1 AC-3 AC-3e AC-4		
Device Presentation	Preassembled with reversing power busbar		
Poles Description	3P		
Power Pole Contact Composition	3 NO		
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC		
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 55 A (at <60 °C) at <= 400 V AC AC-4 for power circuit		
Motor Power Kw	22 kW at 220230 V AC 50 Hz 37 kW at 380400 V AC 50 Hz 45 kW at 415440 V AC 50 Hz 55 kW at 500 V AC 50 Hz 45 kW at 660690 V AC 50 Hz		
Motor Power Hp (UI / Csa)	20 hp at 200/208 V AC 60 Hz for 3 phases motors 7.5 hp at 115 V AC 60 Hz for 1 phase motors 15 hp at 230/240 V AC 60 Hz for 1 phase motors 25 hp at 230/240 V AC 60 Hz for 3 phases motors 60 hp at 460/480 V AC 60 Hz for 3 phases motors 60 hp at 575/600 V AC 60 Hz for 3 phases motors		
Control Circuit Type	AC at 50/60 Hz		
[Uc] Control Circuit Voltage	380 V AC 50/60 Hz		
Auxiliary Contact Composition	1 NO + 1 NC		
[Uimp] Rated Impulse Withstand Voltage	8 kV conforming to IEC 60947		
Overvoltage Category	III		
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 125 A (at 60 °C) for power circuit		

Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 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	135 A 40 °C - 10 min for power circuit
Current	320 A 40 °C - 1 min for power circuit 640 A 40 °C - 10 s for power circuit
	990 A 40 °C - 1 s for power circuit
	100 A - 1 s for signalling circuit
	120 A - 500 ms for signalling circuit
	140 A - 100 ms for signalling circuit
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
	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 certified
	Power circuit: 600 V UL certified
	Signalling circuit: 690 V conforming to IEC 60947-1
	Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
	Power circuit: 1000 V conforming to IEC 60947-4-1
Electrical Durability	0.8 Mcycles 125 A AC-1 at Ue <= 440 V
	1.5 Mcycles 80 A AC-3 at Ue <= 440 V
Power Dissipation Per Pole	12.5 W AC-1
	5.1 W AC-3
Front Cover	With
Interlocking Type	Mechanical
Mounting Support	Plate Rail
Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1 IEC 60947-4-1
	IEC 60947-4-1
	UL 508
Product Certifications	GL
	DNV
	LROS (Lloyds register of shipping)
	RINA
	CCC CSA
	GOST
	BV
	UL
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end
	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end
	Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid
	Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid  Control circuit: screw clamp terminals 1 cable(s) 12.5 mm²flexible with cable end
	Power circuit: connector 1 cable(s) 450 mm²flexible without cable end
	Power circuit: connector 2 cable(s) 425 mm²flexible without cable end
	Power circuit: connector 1 cable(s) 450 mm²flexible with cable end
	Power circuit: connector 2 cable(s) 416 mm²flexible with cable end
	Power circuit: connector 1 cable(s) 450 mm²solid
	Power circuit: connector 2 cable(s) 425 mm²solid
Tightening Torque	.,
Tightening Torque	Power circuit: connector 2 cable(s) 425 mm²solid  Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2
Tightening Torque  Operating Time	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm

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	4 Mcycles
Maximum Operating Rate	3600 cyc/h 60 °C

### Complementary

Coil Technology	Without built-in suppressor module	
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz	
	0.81.1 Uc (-4055 °C):operational AC 50 Hz	
	0.851.1 Uc (-4055 °C):operational AC 60 Hz	
	11.1 Uc (5570 °C):operational AC 50/60 Hz	
Inrush Power In Va	245 VA 60 Hz cos phi 0.75 (at 20 °C)	
	245 VA 50 Hz cos phi 0.75 (at 20 °C)	
Hold-In Power Consumption In Va	26 VA 60 Hz cos phi 0.3 (at 20 °C)	
	26 VA 50 Hz cos phi 0.3 (at 20 °C)	
Heat Dissipation	610 W at 50/60 Hz	
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	
Signalling Circuit Frequency	25400 Hz	
Minimum Switching Current	5 mA for signalling circuit	
Minimum Switching Voltage	n Switching Voltage 17 V for signalling circuit	
Non-Overlap Time	1.5 ms on de-energisation between NC and NO contact	
	1.5 ms on energisation between NC and NO contact	
Insulation Resistance	> 10 MOhm for signalling circuit	

#### **Environment**

IP20 front face conforming to IEC 60529	
conforming to IACS E10	
TH conforming to IEC 60068-2-30	
3	
-4060 °C 6070 °C with derating	
-6080 °C	
03000 m	
850 °C conforming to IEC 60695-2-1	
V1 conforming to UL 94	
Vibrations contactor open: 2 Gn, 5300 Hz Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms	
127 mm	
182 mm	
158 mm	
3.2 kg	

## **Packing Units**

Unit Type Of Package 1 PCE

Number Of Units In Package 1	1
Package 1 Height	18 cm
Package 1 Width	19 cm
Package 1 Length	25.5 cm
Package 1 Weight	3.8 kg

## **Contractual warranty**

Warranty 18 months

#### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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.

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#### Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
<b>Ø</b>	Rohs Exemption Information	Yes
	Pvc Free	
Eu F	Rohs Directive	Compliant
		EU RoHS Declaration
Chir	na Rohs Regulation	China RoHS declaration
		Pro-active China RoHS declaration (out of China RoHS legal scope)
Wee	ee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins