

Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=440V, 66A, 380V AC 50/60Hz coil, EverLink+springs

LC1D80AQ7

Main

Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-1 AC-4 AC-3 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: 690 V AC 25400 Hz Power circuit: 300 V DC
[le] Rated Operational Current	80 A (at <60 °C) at <= 440 V AC-1 for power circuit 66 A (at <60 °C) at <= 440 V AC-3 for power circuit 66 A (at <60 °C) at <= 440 V AC-3e for power circuit
[Uc] Control Circuit Voltage	380 V AC 50/60 Hz

Complementary

Motor Power Kw	22 kW at 220230 V AC 50/60 Hz (AC-3) 37 kW at 380400 V AC 50/60 Hz (AC-3) 37 kW at 415 V AC 50/60 Hz (AC-3) 37 kW at 440 V AC 50/60 Hz (AC-3) 37 kW at 500 V AC 50/60 Hz (AC-3) 37 kW at 500 V AC 50/60 Hz (AC-3) 37 kW at 660690 V AC 50/60 Hz (AC-3) 22 kW at 220230 V AC 50/60 Hz (AC-3e) 37 kW at 380400 V AC 50/60 Hz (AC-3e) 37 kW at 415 V AC 50/60 Hz (AC-3e) 37 kW at 440 V AC 50/60 Hz (AC-3e) 37 kW at 500 V AC 50/60 Hz (AC-3e) 37 kW at 500 V AC 50/60 Hz (AC-3e)
Motor Power Hp	5 hp at 115 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 80 A (at 60 °C) for power circuit

Irms Pated Making Canacity	140 A AC for signalling sirguit conforming to IEC 60047 F 1
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
	1000 A at 440 V AC for power circuit conforming to IEC 60947
Rated Breaking Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	640 A 40 °C - 10 s for power circuit
Current	900 A 40 °C - 1 s for power circuit
	110 A 40 °C - 10 min for power circuit
	260 A 40 °C - 1 min 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
	125 A gG at <= 690 V coordination type 1 for power circuit
	125 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	9.6 W AC-1
	6.3 W AC-3
	6.3 W AC-3e
[Ui] Rated Insulation Voltage	Signalling circuit: 690 V conforming to IEC 60947-1
	Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
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	6 Mcycles
Electrical Durability	0.7 Mcycles 80 A AC-1 at Ue <= 440 V
	1 Mcycles 66 A AC-3 at Ue <= 440 V
	1 Mcycles 66 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz
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 (-4060 °C):operational AC 50 Hz
	0.851.1 Uc (-4060 °C):operational AC 60 Hz
	11.1 Uc (6070 °C):operational AC 50/60 Hz
nrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 20 °C)
	160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C)
	15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	45 W at 50/60 Hz
Operating Time	419 ms opening
-	1226 ms closing
Maximum Operating Rate	3600 cyc/h 60 °C
I	

Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid
	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: solid Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible Power circuit: EverLink BTR screw connectors 1 135 mm² - cable stiffness: flexible Power circuit: EverLink BTR screw connectors 2 125 mm² - cable stiffness: flexible
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm²
	hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm²
	hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
Auxiliary Contact Composition	1 NO + 1 NC
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 Voltage	17 V for signalling circuit
Minimum Switching Current	5 mA for signalling circuit
nsulation Resistance	> 10 MOhm for signalling circuit
Non-Overlap Time	1.5 ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact
Mounting Support	Rail Plate
Environment	
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-4-1 EN/IEC 60947-5-1
	UL 60947-4-1
	CSA C22.2 No 60947-4-1 IEC 60335-1
Product Certifications	ccc
	CSA EAC
	UL L
	KC
	DNV-GL
In Dograp Of Brotostics	LROS (Lloyds register of shipping)
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat

Permissible Ambient Air Temperature Around The Device

Operating Altitude

Flame Retardance

Fire Resistance

-40...60 °C

0...3000 m

60...70 °C with derating

V1 conforming to UL 94

850 °C conforming to IEC 60695-2-1

Mechanical Robustness	Vibrations contactor open (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms)
Height	122 mm
Width	55 mm
Depth	120 mm
Net Weight	0.86 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	14 cm
Package 1 Length	15.5 cm
Package 1 Weight	850 g

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM 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-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information