Specifications



Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 40A, 380V AC 50/60Hz coil, screw clamp terminals

LC1D40AQ7

#### 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-4
	AC-1
	AC-3
	AC-3e
Poles Description	ЗР
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz
	Power circuit: <= 300 V DC
[le] Rated Operational Current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
	40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	380 V AC 50/60 Hz

## Complementary

18.5 kW at 380400 V AC 50/60 Hz (AC-3)
11 kW at 220230 V AC 50/60 Hz (AC-3)
22 kW at 415440 V AC 50/60 Hz (AC-3)
22 kW at 500 V AC 50/60 Hz (AC-3)
30 kW at 660690 V AC 50/60 Hz (AC-3)
9 kW at 400 V AC 50/60 Hz (AC-4)
18.5 kW at 380400 V AC 50/60 Hz (AC-3e)
11 kW at 220230 V AC 50/60 Hz (AC-3e)
22 kW at 415440 V AC 50/60 Hz (AC-3e)
22 kW at 500 V AC 50/60 Hz (AC-3e)
30 kW at 660690 V AC 50/60 Hz (AC-3e)
5 hp at 230/240 V AC 50/60 Hz for 1 phase motors
10 hp at 230/240 V AC 50/60 Hz for 3 phases motors
30 hp at 575/600 V AC 50/60 Hz for 3 phases motors
10 hp at 200/208 V AC 50/60 Hz for 3 phases motors
3 hp at 115 V AC 50/60 Hz for 1 phase motors
30 hp at 460/480 V AC 50/60 Hz for 3 phases motors
LC1D
3 NO
With
10 A (at 60 °C) for signalling 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
	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
[Icw] Rated Short-Time Withstand	320 A 40 °C - 10 s for power circuit
Current	720 A 40 °C - 1 s for power circuit
	72 A 40 °C - 10 min for power circuit
	165 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
-	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	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power Dissipation Per Pole	2.4 W AC-3
	5.4 W AC-1
	2.4 W AC-3e
[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: 690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Lines] Detect Instantes With stored	
[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	1.4 Mcycles 60 A AC-1 at Ue <= 440 V
	1.5 Mcycles 40 A AC-3 at Ue <= 440 V
	1.5 Mcycles 40 A AC-3e at Ue $\leq$ 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
Inrush 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 $V_{A}$ 60 Hz cos phi 0.3 (at 20 °C)
nois in rower 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

Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible without
	cable end Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: flexible without
	cable end
	Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 2 14 mm <sup>2</sup> - cable stiffness: solid without cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm <sup>2</sup> - cable stiffness: flexible without cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm <sup>2</sup> - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 1 135 mm <sup>2</sup> - cable stiffness: solid without cable end
	Power circuit: EverLink BTR screw connectors 2 125 mm <sup>2</sup> - cable stiffness: solid without cable end
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 mm <sup>2</sup>
	hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm <sup>2</sup> 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
Insulation Resistance	> 10 MOhm 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
Mounting Support	Plate Rail

### Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1
Product Certifications	CCC GOST UL CSA
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	-4060 °C 6070 °C with derating

Operating Altitude	03000 m		
Fire Resistance	850 °C conforming to IEC 60695-2-1		
Flame Retardance	V1 conforming to UL 94	V1 conforming to UL 94	
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	0.85 kg		

# **Packing Units**

Number Of Units In Package 11Package 1 Height6.200 cmPackage 1 Width13.700 cmPackage 1 Length15.200 cmPackage 1 Weight906.000 gUnit Type Of Package 2S02Number Of Units In Package 210Package 2 Height15.000 cmPackage 2 Length30.000 cmPackage 2 Length40.000 cm	-	
Package 1 Height6.200 cmPackage 1 Width13.700 cmPackage 1 Length15.200 cmPackage 1 Weight906.000 gUnit Type Of Package 2S02Number Of Units In Package 210Package 2 Height15.000 cmPackage 2 Width30.000 cmPackage 2 Length40.000 cm	Unit Type Of Package 1	PCE
Package 1 Width13.700 cmPackage 1 Length15.200 cmPackage 1 Weight906.000 gUnit Type Of Package 2S02Number Of Units In Package 210Package 2 Height15.000 cmPackage 2 Width30.000 cmPackage 2 Length40.000 cm	Number Of Units In Package 1	1
Package 1 Length15.200 cmPackage 1 Weight906.000 gUnit Type Of Package 2S02Number Of Units In Package 210Package 2 Height15.000 cmPackage 2 Width30.000 cmPackage 2 Length40.000 cm	Package 1 Height	6.200 cm
Package 1 Weight 906.000 g   Unit Type Of Package 2 S02   Number Of Units In Package 2 10   Package 2 Height 15.000 cm   Package 2 Width 30.000 cm   Package 2 Length 40.000 cm	Package 1 Width	13.700 cm
Unit Type Of Package 2 S02   Number Of Units In Package 2 10   Package 2 Height 15.000 cm   Package 2 Width 30.000 cm   Package 2 Length 40.000 cm	Package 1 Length	15.200 cm
Number Of Units In Package 2 10   Package 2 Height 15.000 cm   Package 2 Width 30.000 cm   Package 2 Length 40.000 cm	Package 1 Weight	906.000 g
Package 2 Height 15.000 cm   Package 2 Width 30.000 cm   Package 2 Length 40.000 cm	Unit Type Of Package 2	S02
Package 2 Width     30.000 cm       Package 2 Length     40.000 cm	Number Of Units In Package 2	10
Package 2 Length     40.000 cm	Package 2 Height	15.000 cm
	Package 2 Width	30.000 cm
Package 2 Weight 9.336 kg	Package 2 Length	40.000 cm
	Package 2 Weight	9.336 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.

**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

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#### 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
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