Product datasheet

Specifications





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 40 A - 220 V AC 50/60 Hz coil

LC1D40AM7

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	3P
[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	220 V AC 50/60 Hz

Complementary

Motor Power Kw	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)
Motor Power Hp	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
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit
Thermal Current	60 A (at 60 °C) for power circuit

Excluding VAT, FCA Jabal Ali & are subject to change - check with your local distributor.

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	2410400.2
i ower bissipation fer fole	2.4 W AC-3
	5.4 W AC-1 2.4 W AC-3e
	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
[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 <= 440 V
Control Circuit Type	AC at 50/60 Hz standard
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz
5	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 $1/4$ 60 Hz cos phi 0.3 (et 20 °C)
noid-in Fower 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 ² - cable stiffness: flexible with	
	cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible without cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible without cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid without cable end	
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - 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 ²	
	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	
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	

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
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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	13.5 cm
Package 1 Length	15.2 cm
Package 1 Weight	915.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	9.776 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	160
Package 3 Height	77.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	164.9 kg

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

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

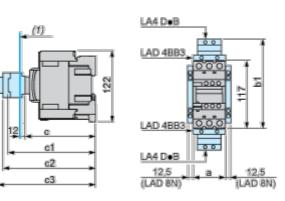
Certifications & Standards

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	

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Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
	with LA4 D●2	-
b1	with LA4 DB3 or LAD 4BB3	136
	with LA4 DF, DT	157
	with LA4 DM, DW, DL	166
	without cover or add-on blocks	118
c w	with cover, without add-on blocks	120
	with LAD N (1 contact)	-
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK10, LAD 6DK	163
	with LAD T, R, S	171
c3	with LAD T, R, S and sealing cover	175

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Connections and Schema

Wiring

