# Product datasheet Characteristics

# LC1D40AM7

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



#### Main

IVIAIII	
Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-4 AC-1
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	<= 300 V DC for power circuit <= 690 V AC 25400 Hz for power circuit
[le] rated operational current	40 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 60 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit
Motor power kW	18.5 kW at 380400 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 11 kW at 220230 V AC 50/60 Hz AC-3 9 kW at 400 V AC 50/60 Hz AC-4 22 kW at 415440 V AC 50/60 Hz AC-3
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 3 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 200/208 V AC 50/60 Hz for 3 phases motors 30 hp at 460/480 V AC 50/60 Hz for 3 phases motors
Control circuit type	AC 50/60 Hz
Control circuit voltage	220 V AC 50/60 Hz
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand voltage	Conforming to IEC 60947
<u> </u>	

140 A AC for signalling circuit conforming to IEC 60947-5-1   250 A DC for signalling circuit conforming to IEC 60947-5-1   100 A 1 s signalling circuit   100 A 1 s signalling circuit   120 A 500 ms signalling circuit   120 A 600 ms signallin	Overvoltage category	III	
140 A AC for signalling circuit conforming to IEC 60947-5-1   250 A D C for signalling circuit conforming to IEC 60947-5-1   260 A D C for signalling circuit conforming to IEC 60947-8-1   100 A 1 s agranting circuit 1   120 A 500 ms signalling			
[[cw] rated short-time withstand current 100 A.1 s. signaling circuit 120 A.500 ms. signaling circuit conforming to IEC 60947-5-1  Associated fuse rating 8.80 A.90 at see .600 V coordination type 1 for power circuit 10 A.90 for signaling circuit conforming to IEC 60947-5-1  Average impedance 1.5 mcDhm at 50 Hz tin 60 A for power circuit 10 A.90 for power circuit conforming to IEC 60947-5-1  Average impedance 6.600 V for power circuit conforming to IEC 60947-4-1  600 V for signaling circuit conforming to IEC 60947-4-1  600 V for signaling circuit conforming to IEC 60947-4-1  600 V for signaling circuit certifications SU.  Electrical durability 1.5 Mcycles 40 A.C-3 at 10 e= 440 V 1.4 Mcycles 60 A.C-1 at 10 e= 440 V 1.4	Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 120 A <= 40 °C 10 power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms power circuit 720 A <= 40 °C 10 ms powe	Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
80 A gC at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1  Average impedance  1.5 mChm at 50 Hz - 1th 60 A for power circuit (IUI) rated insulation voltage  800 V for power circuit certifications CSA 800 V for power circuit certifications CSA 800 V for power circuit conforming to IEC 60947-1 800 V for signalling circuit conforming to IEC 60947-1 800 V for signalling circuit certifications CSA 800 V for signalling circuit certifications 800 V for signalling circuit certificat	[Icw] rated short-time withstand current	120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A <= 40 °C 10 s power circuit 720 A <= 40 °C 1 s power circuit 72 A <= 40 °C 10 min power circuit	
Uii   rated insulation voltage   600 V for power circuit certifications CSA   600 V for power circuit certifications UL   690 V for power circuit certifications UL   690 V for power circuit certifications UL   690 V for signalling circuit conforming to IEC 60947-4-1   690 V for signalling circuit certifications CSA   600 V for signalling circuit certifications CSA   600 V for signalling circuit certifications UL   1.5 Mcycles 40 A AC-3 at U to ≤ 440 V   1.4 Mcycles 60 A AC-3 at U to ≤ 440 V   1.4 Mcycles 60 A AC-3 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 A AC-1 at U to ≤ 440 V   1.4 Mcycles 60 AC-1 at U to ≤ 440 V   1.4	Associated fuse rating	80 A gG at <= 690 V coordination type 2 for power circuit	
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Power dissipation per pole  5.4 W AC-1 2.4 W AC-3  Protective cover  With  Mounting support  Plate Rail  Standards  CSA C22.2 No 14 EN 60947-4-1 IEC 60947-5-1 IEC 60947-5-1 IEC 60947-6-1 UL 508  Product certifications  CCC CSA UL GOST  Connections - terminals  Control circuit : screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end 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 ≤ 25 mm² hexagonal 4 mm Power circuit : 8 N.m - on EverLink BTR screw connectors - cable ≤ 25 mm² hexagonal 4 mm Power circuit : 8 N.m - on EverLink BTR screw connectors - cable ≤ 25 mm² hexa	[Ui] rated insulation voltage	600 V for power circuit certifications UL 690 V for power circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-1 600 V for signalling circuit certifications CSA	
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Standards	Power dissipation per pole		
Standards  CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 IEC 60947-5-1 IEC 60947-5-1 UL 508  Product certifications  CCC CSA UL GOST  Control circuit : screw clamp terminals 2 cable(s) 12.5 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit : EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit : screw clamp terminals 2 cable(s) 1	Protective cover	With	
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Power circuit: 5 N.m - on EverLink BTR screw connectors - cable <= 25 mm² hexagonal 4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal 4 mm  Operating time  1226 ms closing		end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 135 mm² - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 125 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm² - cable stiffness: solid - without cable end	
·		Power circuit: 5 N.m - on EverLink BTR screw connectors - cable <= 25 mm² hexagonal 4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² hexagonal 4 mm	
	Operating time	· · · · · · · · · · · · · · · · · · ·	

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
Operating rate	3600 cyc/h at <= 60 °C

#### Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc drop-out at 60 °C, AC 50/60 Hz 0.81.1 Uc operational at 60 °C, AC 50 Hz 0.851.1 Uc operational at 60 °C, AC 60 Hz
Inrush power in VA	140 VA at 20 °C (cos φ 0.75) 60 Hz 160 VA at 20 °C (cos φ 0.75) 50 Hz
Hold-in power consumption in VA	13 VA at 20 °C (cos φ 0.3) 60 Hz 15 VA at 20 °C (cos φ 0.3) 50 Hz
Heat dissipation	45 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	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
Motor power range AC-3	711 kW 200240 V 3 phases 1525 kW 380440 V 3 phases 1525 kW 480500 V 3 phases 1525 kW 525690 V 3 phases 3050 kW 525690 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	220 V AC

#### Environment

IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
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 open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
Height	122 mm
Width	55 mm
Depth	120 mm
Product weight	0.85 kg

## Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW) Compliant - since 0001 - Schneider Electric declaration of conformity		
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	

Reference not containing SVHC above the threshold	

Product environmental profile	Available  If the manual the manu	
Product end of life instructions	Available	
Contractual warranty		

18 months

Warranty period

# LC1D40AM7

--- File: MPC-LC1D40AM7-BOM.xml, Range ID: 664, Reference ID: LC1D40AM7 -->

#### Our Proposal - Type 1: Circuit Breaker + Contactor for Motor Power 18,5 kW and 415 VAC

## <!-- DataBOM 2 Template BEGIN -->

Motor Power (kW)	lcu (kA)	Breaker	Contactor
18.5	50	•	
		GV3P40	LC1D40AM7

Non contractual pictures. Type 1 coordination requires that in a short-circuit condition, the contactor or starter must not present any danger to personnel or installations and must not be able to resume operation without repair or the replacement of parts.

<!-- DataBOM 2 Template END --> <!-- No Variants -->