LC1D40AM7

IEC contactor, TeSys Deca, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 220VAC 50/60Hz coil, open





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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	220 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)	
11 KW at 220230 V AC 50/60 Hz (AC-3)	
00 1/11/ -+ 445 440 1/ 40 50/00 11- /40 01	
22 KW at 415440 V AC 50/60 Hz (AC-3)	
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30 np at 460/480 V AC 50/60 Hz for 3 phase motors	
LC1D	
3 NO	
With	
10 A (at 140 °F (60 °C)) for signalling circuit	
60 A (at 140 °F (60 °C)) for power circuit	
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	
800 A at 440 V for power circuit conforming to IEC 60947	
	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) 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 phase motors 30 Hp at 575/600 V AC 50/60 Hz for 3 phase motors 10 Hp at 200/208 V AC 50/60 Hz for 3 phase motors 3 Hp at 115 V AC 50/60 Hz for 1 phase motors 3 hp at 460/480 V AC 50/60 Hz for 3 phase motors 30 hp at 460/480 V AC 50/60 Hz for 3 phase motors LC1D 3 NO With 10 A (at 140 °F (60 °C)) for signalling circuit 60 A (at 140 °F (60 °C)) for power circuit 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not interactive for and is not to be used for determining suitability or intensity of these products for specific user applications. It is the dourn and resting of the products with respect to the relevant specific application or use thereof. Neither Schmeider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or itable for misuse of the information contained herein.

[lcw] rated short-time withstand current	320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 A 104 °F (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[RETURN]Power circuit 600 V UL[RETURN]Signalling circuit 690 V IEC 60947-1[RETURN]Signalling circuit 600 V CSA[RETURN]Signalling circuit 600 V UL[RETURN]Power circuit 690 V IEC 60947-4-1	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	6 Mcycles	
Electrical durability	1.4 Mcycles 60 A AC-1 <= 440 V 1.5 Mcycles 40 A AC-3 <= 440 V 1.5 Mcycles 40 A AC-3e <= 440 V	
Control circuit type	AC 50/60 Hz standard	
Coil technology	Without built-in suppressor module	
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz	
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 160 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat dissipation	45 W at 50/60 Hz	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h 140 °F (60 °C)	
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.000.05 in² (135 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: flexible with cable end	

Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in	
	(2535 mm²) hexagonal 0.16 in (4 mm)	
	Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in ²	
	(125 mm²) hexagonal 0.16 in (4 mm)	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
	Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
	Mirror contact 1 NC 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[RETURN]GOST[RETURN]UL[RETURN]CSA
IP degree of protection	IP20 front face IEC 60529
Protective treatment	THIEC 60068-2-30
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) 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	4.80 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Net Weight	1.87 lb(US) (0.85 kg)

Ordering and shipping details

Category	US10l1222357
Discount Schedule	0112
GTIN	3389119408394
Returnability	Yes
Country of origin	ID

Packing Units

PCE	
1	
2.44 in (6.2 cm)	
5.31 in (13.5 cm)	
5.98 in (15.2 cm)	
32.28 oz (915.0 g)	
	1 2.44 in (6.2 cm) 5.31 in (13.5 cm) 5.98 in (15.2 cm)

Unit Type of Package 2	S02
Number of Units in Package 2	10
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	21.55 lb(US) (9.776 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Height	30.31 in (77.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	363.54 lb(US) (164.9 kg)

Offer Sustainability

Sustainable offer status	Green Premium product	
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	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
China RoHS Regulation	☐ China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
PVC free	Yes	

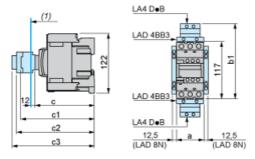
Contractual warranty

Warranty	18 months
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Product data sheet Dimensions Drawings

LC1D40AM7

Dimensions



(1) Minimum electrical clearance

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

Product data sheet Connections and Schema

LC1D40AM7

Wiring

