Product data sheet Characteristics

LC1D40AM7

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

Product availability: Stock - Normally stocked in distribution facility



Price*: 218.00 USD



IVIAIII		
Range of product	TeSys D	-
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-4 AC-1 AC-3	
Poles description	3P	
Pole contact composition	3 NO	
System Voltage	<= 300 V DC power circuit <= 690 V AC 25400 Hz power circuit	
[le] rated operational current	40 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 60 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 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 1 phase motors 10 hp at 230/240 V AC 50/60 Hz 3 phases motors 30 hp at 575/600 V AC 50/60 Hz 3 phases motors 3 hp at 115 V AC 50/60 Hz 1 phase motors 10 hp at 200/208 V AC 50/60 Hz 3 phases motors 30 hp at 460/480 V AC 50/60 Hz 3 phases motors	
Control circuit type	AC 50/60 Hz	
[Uc] 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
Overvoltage category	III
[lth] conventional free air thermal current	60 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit
Irms rated making capacity	800 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	800 A at 440 V power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 320 A <= 104 °F (40 °C) 10 s power circuit 720 A <= 104 °F (40 °C) 1 s power circuit 72 A <= 104 °F (40 °C) 10 min power circuit 165 A <= 104 °F (40 °C) 1 min power circuit
Associated fuse rating	80 A gG at <= 690 V coordination type 1 power circuit 80 A gG at <= 690 V coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	1.5 mOhm at 50 Hz - Ith 60 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.5 Mcycles 40 A AC-3 at Ue <= 440 V 1.4 Mcycles 60 A AC-1 at Ue <= 440 V
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
Protective cover	With
Mounting support	Rail Plate
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product certifications	CSA UL CCC GOST
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 00.05 in² (135 mm²) - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 00.05 in² (135 mm²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 1 cable(s) 00.05 in² (135 mm²) - cable stiffness: solid - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 00.04 in² (125 mm²) - cable stiffness: flexible - without cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 00.04 in² (125 mm²) - cable stiffness: flexible - with cable end Power circuit: EverLink BTR screw connectors 2 cable(s) 00.04 in² (125 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2

	Power circuit: 70.8 lbf.in (8 N.m) - on EverLink BTR screw connectors - cable 0.040.05 in² (2535 mm²) hexagonal 0.16 in (4 mm) Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal 4 mm	
Operating time	1226 ms closing 419 ms opening	
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 <= 140 °F (60 °C)	

Complementary

oil technology Without built-in suppressor module		
Control circuit voltage limits	0.30.6 Uc drop-out at 140 °F (60 °C), AC 50/60 Hz 0.81.1 Uc operational at 140 °F (60 °C), AC 50 Hz 0.851.1 Uc operational at 140 °F (60 °C), AC 60 Hz	
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz 160 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz	
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 15 VA at 68 °F (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 signalling circuit	
Minimum switching voltage	17 V 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 signalling circuit	
Power range	711 kW 200240 V 3 phases 1525 kW 380440 V 3 phases 1525 kW 480500 V 3 phases	
Motor starter type	Direct on-line contactor	
Contactor coil voltage	220 V AC standard	

Environment

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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	23140 °F (-560 °C)	
Ambient air temperature for storage	-76176 °F (-6080 °C)	
Permissible ambient air temperature around the device	-40158 °F (-4070 °C) at Uc	
Operating altitude 9842.52 ft (3000 m) without derating in temperature		
Fire resistance	1562 °F (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	4.8 in (122 mm)	
Width	2.17 in (55 mm)	
Depth	4.72 in (120 mm)	
roduct weight 1.87 lb(US) (0.85 kg)		

Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
Discount Schedule	l12

GTIN	00785901734901	
Nbr. of units in pkg.	1	
Package weight(Lbs)	2.06000000000001	
Returnability	Y	
Country of origin	ID	

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	
Product end of life instructions	Available	

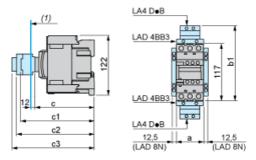
Contractual warranty

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Warranty period	18 months

Product data sheet Dimensions Drawings

LC1D40AM7

Dimensions



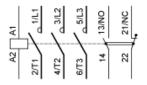
(1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LA4 D●2	-
with LA4 DB3 or	L/ASID 4BB3	
with LA4 DF, DT	with LA4 DF, DT 157	
with LA4 DM, DV	V) 666L	
С	without cover or add-on blocks	118
with cover, without 20d on blocks		
c1	with LAD N (1 contact)	-
with LAD N or C (250) 4 contacts)		
c2	with LA6 DK10, LAD 6DK	163
с3	with LAD T, R, S	171
with LAD T, R, S	aัสิ6 sealing cover	

Product data sheet Connections and Schema

LC1D40AM7

Wiring



LC1D40AM7

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

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.