Product data sheet Characteristics

LC1D65AB7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 65 A - 24 V AC 50/60 Hz coil





Main

Iviaiii		
Range	TeSys	
Product name	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-3 AC-4	
Poles description	3P	
Power 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	80 A (<= 60 °C) at <= 440 V AC AC-1 for power circuit 65 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit	
Motor power kW	11 kW at 400 V AC 50/60 Hz AC-4 30 kW at 380400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 37 kW at 660690 V AC 50/60 Hz AC-3 18.5 kW at 220230 V AC 50/60 Hz AC-3	
Motor power HP (UL / CSA)	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors 5 hp at 115 V AC 50/60 Hz for 1 phase motors 10 hp at 230/240 V AC 50/60 Hz for 1 phase motors 20 hp at 200/208 V AC 50/60 Hz for 3 phases motors 20 hp at 230/240 V AC 50/60 Hz for 3 phases motors 50 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	24 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	80 A at <= 60 °C for power circuit 10 A at <= 60 °C for signalling circuit		
Irms rated making capacity	1000 A at 440 V for power circuit conforming to IEC 60947 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1		
Rated breaking capacity	1000 A at 440 V for 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 520 A <= 40 °C 10 s power circuit 900 A <= 40 °C 1 s power circuit 110 A <= 40 °C 10 min power circuit 260 A <= 40 °C 1 min power circuit		
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG 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 mOhm at 50 Hz - Ith 80 A for power circuit		
[Ui] rated insulation voltage	600 V for power circuit certifications CSA 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 600 V for signalling circuit certifications UL		
Electrical durability	1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.4 Mcycles 80 A AC-1 at Ue <= 440 V		
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1		
Safety cover	With		
Mounting support	Plate Rail		
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	CCC CSA GOST UL		
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 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 2 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 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 Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - 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 mm² hexagonal 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 <= 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	

Environment

IP degree of protection	IP20 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	0.86 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	
	Product Environmental Profile	
Product end of life instructions	Available	
	End of Life Information	

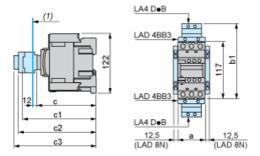
Contractual warranty

Contractadi Warranty		
Warranty period	18 months	

Product data sheet Dimensions Drawings

LC1D65AB7

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	
с3	with LAD T, R, S	171	
	with LAD T, R, S and sealing cover	175	

Wiring

