



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

Local distributor code: 390826460 LC1D65AB7

Main

<u>Iviaiii</u>			
Range	TeSys TeSys Deca		
Product name	TeSys D TeSys Deca		
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Motor control Resistive load		
Utilisation category	AC-4 AC-1 AC-3 AC-3e		
Poles description	3P		
Power pole contact composition	3 NO		
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC		
[le] rated operational current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit		
Motor power kW	11 kW at 400 V AC 50/60 Hz (AC-4) 18.5 kW at 220230 V AC 50/60 Hz (AC-3) 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-3e) 30 kW at 380400 V AC 50/60 Hz (AC-3e) 37 kW at 500 V AC 50/60 Hz (AC-3e) 37 kW at 660690 V AC 50/60 Hz (AC-3e)		
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 at 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	6 kV conforming to IEC 60947		
Overvoltage category	III		
[Ith] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 80 A (at 60 °C) for power circuit		

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 1000 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
[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	
Electrical durability	1.4 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.45 Mcycles 65 A AC-3e at Ue <= 440 V	
Power dissipation per pole	9.6 W AC-1 6.3 W AC-3 6.3 W AC-3e	
Front 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 IEC 60335-1	
Product certifications	UL CCC CSA GOST	
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible without cable end Power circuit: screw connection 2 cable(s) 125 mm²flexible with cable end Power circuit: screw connection 1 cable(s) 135 mm²flexible with cable end Power circuit: screw connection 2 cable(s) 125 mm²flexible with cable end Power circuit: screw connection 1 cable(s) 135 mm²solid without cable end Power circuit: screw connection 1 cable(s) 135 mm²solid without cable end Power circuit: screw connection 2 cable(s) 125 mm²solid without cable end	
Tightening torque	Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm² 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 EverLink BTR screw connectors - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on EverLink BTR screw connectors - with screwdriver pozidriv No 2 - on EverLink BTR screw connectors	
Operating time	419 ms opening 1226 ms closing	
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	

Coil technology Without built-in suppressor module

Control circuit voltage limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 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 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	
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	
Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Protective treatment	TH conforming to IEC 60068-2-30	
Pollution degree	3	
Ambient air temperature for operation	-4060 °C 6070 °C with derating	
Ambient air temperature for storage	-6080 °C	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
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	0.86 kg	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	938.0 g	
Package 1 Height	6 cm	
Package 1 width	13.5 cm	
Package 1 Length	15.2 cm	
Unit Type of Package 2	S02	
Number of Units in Package 2	10	
Package 2 Weight	9.945 kg	

15 cm

Package 2 Height

Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Weight	167.62 kg
Package 3 Height	77 cm
Package 3 width	80 cm
Package 3 Length	60 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
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

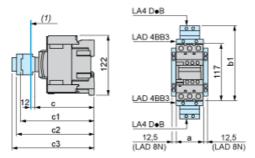
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Warranty	18 months	

Product datasheet

LC1D65AB7

Dimensions Drawings

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	

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Connections and Schema

Wiring

