



TeSys Deca contactor - 3P(3 NO) -AC-3/AC-3e - <= 440 V 65 A - 24 V DC standard coil

LC1D65ABD

V	a	ı	r

TeSys TeSys Deca	
TeSys D TeSys Deca	
Contactor	
LC1D	
Motor control Resistive load	
AC-4 AC-1 AC-3 AC-3e	
3P	
3 NO	
Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
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	
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 500 V AC 50/60 Hz (AC-3e) 37 kW at 660690 V AC 50/60 Hz (AC-3e)	
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	
DC standard	
24 V DC	
1 NO + 1 NC	
6 kV conforming to IEC 60947	
III	
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	0.5 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	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 IEC 60335-1	
Product certifications	GOST UL CCC CSA	
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 without 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 2 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	42.557.5 ms closing 1624 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	10 Mcycles	
Maximum operating rate	3600 cyc/h 60 °C	

Coil technology Built-in bidirectional peak limiting diode suppressor

Control circuit voltage limits	0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
Time constant	34 ms	
Inrush power in W	19 W (at 20 °C)	
Hold-in power consumption in W	7.4 W at 20 °C	
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	-40…60 °C 60…70 °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	0.935 kg	
Packing Units Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Weight	984.0 g	
Package 1 Height	6.2 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	10.39 kg	
Package 2 Height	15.0 cm	
Package 2 width	30.0 cm	

Package 2 Length	40.0 cm
Unit Type of Package 3	P06
Number of Units in Package 3	160
Package 3 Weight	174.74 kg
Package 3 Height	77.0 cm
Package 3 width	80.0 cm
Package 3 Length	60.0 cm

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
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	
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	

Contractual warranty

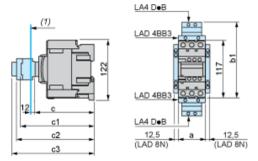
Warranty	18 months	

Product data sheet

LC1D65ABD

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LAD 4BB3	136
	with LA4 DF, DT	157
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	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

