# Product data sheet Characteristics

# LC1D65ABD

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





#### Main

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	
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	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	DC standard	
[Uc] control circuit voltage	24 V DC	
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	
[lcw] 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	
Protective 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 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 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) 125 mm²solid 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 m- m² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 m- m² hexagonal screw head 4 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver- pozidriv No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver- pozidriv No 2	
Operating time	42.557.5 ms closing	
Safety reliability level	1624 ms opening  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

# Complementary

Built-in bidirectional peak limiting diode suppressor	
0.10.3 Uc (-4070 °C):drop-out DC 0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
34 Ms	
19 W (at 20 °C)	
7.4 W at 20 °C	
Type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
25400 Hz	
5 MA for signalling circuit	
17 V for signalling circuit	
1.5 Ms on de-energisation between NC and NO contact 1.5 Ms on energisation between NC and NO contact	
> 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	-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	0.935 Kg	

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	1.004 Kg
Package 1 Height	6.2 Cm
Package 1 width	13.4 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 Cm
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	174.74 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	
EU RoHS Directive	Compliant EEEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	₫Yes	
China RoHS Regulation	☑ China RoHS Declaration	
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

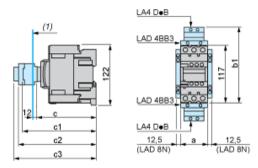
Warranty	4.0	
Warranty	18 months	
-		



# Product data sheet Dimensions Drawings

# LC1D65ABD

#### Dimensions



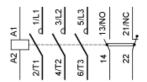
#### (1) Minimum electrical clearance

LC1		D40AD65A
а		55
b1	with LAD 4BB3	136
with LA4 D	DF, DT 157	
С	without cover or add-on blocks	118
with cover,	, without29dd-on blocks	
c1	with LAD N (1 contact)	-
with LAD N	N or C (155θr 4 contacts)	
c2	with LA6 DK10	163
с3	with LAD T, R, S	171
with LAD T	T, R, S ta7fol sealing cover	

## Product data sheet Connections and Schema

# LC1D65ABD

Wiring



Product Life Status: Commercialised