



TeSys Deca contactor,3P(3NO),AC-3/ AC-3e,<=440V 25A,24V DC coil

LC1D25BD

Range	TeSys TeSys Deca	
Range of product	TeSys D TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-4 AC-3 AC-1 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] rated operational current	rent 25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	

Complementary

Complementary				
Motor power kW	5.5 kW at 220230 V AC 50/60 Hz (AC-3)			
	11 kW at 380400 V AC 50/60 Hz (AC-3)			
	11 kW at 415440 V AC 50/60 Hz (AC-3)			
	15 kW at 500 V AC 50/60 Hz (AC-3)			
	15 kW at 660690 V AC 50/60 Hz (AC-3)			
	5.5 kW at 400 V AC 50/60 Hz (AC-4)			
	5.5 kW at 220230 V AC 50/60 Hz (AC-3e)			
	11 kW at 380400 V AC 50/60 Hz (AC-3e)			
	11 kW at 415440 V AC 50/60 Hz (AC-3e)			
	15 kW at 500 V AC 50/60 Hz (AC-3e)			
	15 kW at 660690 V AC 50/60 Hz (AC-3e)			
Motor power hp	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors			
·	2 hp at 115 V AC 50/60 Hz for 1 phase motors			
	7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors			
	15 hp at 460/480 V AC 50/60 Hz for 3 phases motors			
	20 hp at 575/600 V AC 50/60 Hz for 3 phases motors			
	7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors			
Pole contact composition	3 NO			
Contact compatibility	act compatibility M4			
Protective cover	ive cover With			
Auxiliary contacts type	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			
Auxiliary contact composition	1 NO + 1 NC			

[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 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		
[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 40 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947		
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947		
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit		
Time constant	28 ms		
Control circuit type	DC standard		
Coil technology	Built-in bidirectional peak limiting diode suppressor		
Control circuit voltage limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC		
Average impedance	2 mOhm - Ith 40 A 50 Hz for power circuit		
Power dissipation per pole	3.2 W AC-1 1.25 W AC-3 1.25 W AC-3e		
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		
Maximum operating rate	3600 cyc/h 60 °C		
Inrush power in W	5.4 W (at 20 °C)		
Hold-in power consumption in W	5.4 W at 20 °C		
Insulation resistance	> 10 MOhm for signalling circuit		
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: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2 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		
Mounting support	Plate Rail		
Electrical durability	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V 1.65 Mcycles 25 A AC-3e at Ue <= 440 V		
Mechanical durability	30 Mcycles		
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		
Operating altitude	03000 m		
Compatibility code	LC1D		
Product certifications	LROS (Lloyds register of shipping) BV GL CCC RINA GOST CSA DNV		

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Climatic withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D	
Ambient air temperature for storage	-6080 °C	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Height	85 mm	
Width	45 mm	
Depth	101 mm	
Net weight	0.53 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	579 g
Package 1 Height	5 cm
Package 1 width	9.3 cm
Package 1 Length	11.3 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	9.012 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	240
Package 3 Weight	152 kg
Package 3 Height	75 cm
Package 3 width	60 cm
Package 3 Length	80 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	
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

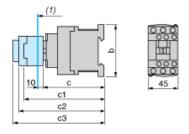
18 months

Product data sheet

LC1D25BD

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D25D38	D183D323
b		85	99
С	without cover or add-on blocks	99	99
	with cover, without add-on blocks	101	101
c1	with LAD N or C (2 or 4 contacts)	132	132
c2	with LA6 DK10	144	144
с3	with LAD T, R, S	152	152
	with LAD T, R, S and sealing cover	156	156

Product data sheet

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Connections and Schema

Wiring

