



# TeSys Deca contactor,3P(3NO),AC-3/ AC-3e,<=440V 32A,24V DC coil

LC1D32BD

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Range	TeSys TeSys Deca
Range of product	TeSys D TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4 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	32 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 50 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-3e for power circuit

#### Complementary

Complementary				
Motor power kW	7.5 kW at 220230 V AC 50/60 Hz (AC-3)			
	15 kW at 380400 V AC 50/60 Hz (AC-3) 15 kW at 415440 V AC 50/60 Hz (AC-3)			
	18.5 kW at 500 V AC 50/60 Hz (AC-3) 18.5 kW at 660690 V AC 50/60 Hz (AC-3) 7.5 kW at 400 V AC 50/60 Hz (AC-4)			
	7.5 kW at 220230 V AC 50/60 Hz (AC-3e)			
	15 kW at 380400 V AC 50/60 Hz (AC-3e)			
	15 kW at 415440 V AC 50/60 Hz (AC-3e)			
	18.5 kW at 500 V AC 50/60 Hz (AC-3e)			
	18.5 kW at 660690 V AC 50/60 Hz (AC-3e)			
Motor power hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors			
·	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors			
	7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors			
	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors			
	20 hp at 460/480 V AC 50/60 Hz for 3 phases motors			
	30 hp at 575/600 V AC 50/60 Hz for 3 phases motors			
Pole contact composition	3 NO			
Contact compatibility	M4			
Protective cover	With			
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			
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	
[lth] conventional free air thermal current	10 A (at 60 °C) for signalling circuit 50 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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	550 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 63 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 50 A 50 Hz for power circuit	
Power dissipation per pole	2 W AC-3 5 W AC-1 2 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	Rail Plate	
Electrical durability	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V 1.65 Mcycles 32 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	DNV GL CCC UL GOST BV LROS (Lloyds register of shipping) RINA	

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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	0.535 kg

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	583.0 g
Package 1 Height	5.0 cm
Package 1 width	9.2 cm
Package 1 Length	11.2 cm
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Weight	9.055 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	240
Package 3 Weight	154.5 kg
Package 3 Height	75.0 cm
Package 3 width	60.0 cm
Package 3 Length	80.0 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
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

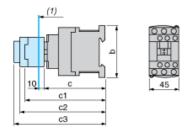
18 months

### **Product data sheet**

# LC1D32BD

**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**

LC1D32BD

Connections and Schema

### Wiring

