# **Product datasheet**





## TeSys D, Contactor, 3P(3 NO), AC-3/AC-3e, 0 to 440V, 32A, 24VDC coil

LC1D32BD

#### Main

Range of product	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
[Uc] control circuit voltage	24 V DC

### 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 10 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 25 hp at 575/600 V AC 50/60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] 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

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[lcw] rated short-time withstand	260 A 40 °C - 10 s for power circuit
current	430 A 40 °C - 1 s for power circuit
	60 A 40 °C - 10 min for power circuit
	138 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
	63 A gG at <= 690 V coordination type 1 for power circuit
	63 A gG at <= 690 V coordination type 2 for power circuit
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
[Ui] rated insulation voltage	Dougs giravity 600 V conforming to IEC 60047.4.4
[OI] 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
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV conforming to IEC 60947
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
	100.0
Mechanical durability	30 Mcycles
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
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
Inrush power in W	5.4 W (at 20 °C)
Hold-in power consumption in W	5.4 W at 20 °C
Operating time	63 ±15 % ms closing
-	20 ±20 % ms opening
Time constant	20 ma
Time constant	28 ms
Maximum operating rate	3600 cyc/h 60 °C

IP degree of protection	CB  IP20 front face conforming to IEC 60529	
	СВ	
	UKCA	
	CCC CSA GOST	
	DNV LROS (Lloyds register of shipping) RINA UL	
Product certifications	GL BV	
	IEC 60947-5-1 UL 508 IEC 60335-1	
	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1	
Environment Standards	CSA C22.2 No 14	
mounting support	Rail Plate	
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	
Minimum switching current	5 mA for signalling circuit	
Minimum switching voltage	17 V for signalling circuit	
Signalling circuit frequency	25400 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	
Auxiliary contact composition	1 NO + 1 NC	
Fightening 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	
	cable end	
	cable end Power circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without	
	cable end  Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with	
	Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible without cable end  Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with	
	Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible without cable end	
	cable end  Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end	
	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without	
	end  Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with	
	cable end  Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable	
	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without	

Climatic withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible ambient air temperature around the device	-4060 °C 6070 °C with derating	
Operating altitude 03000 m		
ire resistance 850 °C conforming to IEC 60695-2-1		
lame retardance V1 conforming to UL 94		
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 (8 Gn for 11 ms)	
Height	85 mm	
Width	45 mm	
Depth	101 mm	
et weight 0.535 kg		

# **Packing Units**

_	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.000 cm
Package 1 Width	9.200 cm
Package 1 Length	11.200 cm
Package 1 Weight	585.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.055 kg
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	154.500 kg

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>②</b>	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	

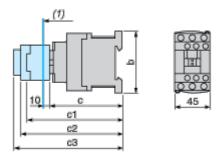
#### **Certifications & Standards**

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
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	

### LC1D32BD

#### **Dimensions Drawings**

#### **Dimensions**



#### (1) Minimum electrical clearance

LC1		D25D38	D183D323
b		85	99
	without cover or add-on blocks	99	99
С	with cover, without add-on blocks	101	101
с1	with LAD N or C (2 or 4 contacts)	132	132
c2	with LA6 DK10	144	144
сЗ	with LAD T, R, S	152	152
	with LAD T, R, S and sealing cover	156	156

Connections and Schema

Wiring

