

# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 24 V DC coil

LC1D32BD

### Main

Range of product	TeSys Deca	
	100y3 2004	
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) 18.5 kW at 400 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

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[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	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
	Signaling Circuit. 600 V OL Certined
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
	100.10 1
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
- p	20 ±20 % ms opening
Time constant	28 ms
Maximum anaratina anta	
Maximum operating rate	3600 cyc/h at 60 °C

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ol circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with	
end ol circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without	
end ol circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without	
end er circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible without	
end or circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible without	
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r circuit: screw clamp terminals 1 110 mm <sup>2</sup> - cable stiffness: flexible with end	
r circuit: screw clamp terminals 2 1.56 mm <sup>2</sup> - cable stiffness: flexible with end	
or circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: solid without end	
er circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without end	
ol circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
ol circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 or circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
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ol circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 or circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
+ 1 NC	
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1	
00 Hz	
for signalling circuit	
for signalling circuit	
MOhm for signalling circuit	
s on de-energisation between NC and NO contact s on energisation between NC and NO contact	
C22.2 No 14 0947-4-1	
0947-5-1	
0947-4-1 0947-5-1	
0947-4-1	
0335-1:Clause 30.2	
:0335-2-40:Annex JJ :0335-2-40:Annex JJ	
3335-2-40:Annex JJ C22.2 No 60947-4-1	
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A	
cheme	
front face conforming to IEC 60529	
front face conforming to IEC 60529 onforming to IEC 60068-2-30	
The second of th	

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	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Flame 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	
Net 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

# **Environmental Data**

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

How this information helps you >

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	45
Environmental Disclosure	Product Environmental Profile

### **Use Better**

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	50ae7612-fd2e-41e4- a369-50d0dea6e592
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS declaration
PVC free	Yes

## **Use Again**

○ Repack and remanufacture	
Circularity Profile	End of Life Information

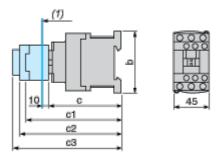
Take-back

No

## LC1D32BD

### **Dimensions Drawings**

### **Dimensions**

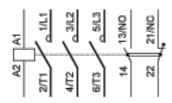


#### (1) Minimum electrical clearance

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
с3	with LAD T, R, S	152	152
	with LAD T, R, S and sealing cover	156	156

Connections and Schema

Wiring



## **Product datasheet**

## LC1D32BD

Image of product / Alternate images

**Alternative** 





