

# LC1D32BL

TeSys D contactor - 3P(3 NO) - AC-3 -  $\leq 440$  V  
32 A - 24 V DC coil

Product availability : Stock - Normally stocked in distribution facility



Price\* : 213.00 USD



## Main

Range of product	TeSys D
Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
System Voltage	$\leq 300$ V DC power circuit $\leq 690$ V AC 25...400 Hz power circuit
[Ie] rated operational current	32 A ( $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-3 power circuit 50 A ( $\leq 140$ °F (60 °C)) at $\leq 440$ V AC AC-1 power circuit
Motor power kW	15 kW at 380...400 V AC 50/60 Hz AC-3 7.5 kW at 220...230 V AC 50/60 Hz AC-3 18.5 kW at 500 V AC 50/60 Hz AC-3 18.5 kW at 660...690 V AC 50/60 Hz AC-3 15 kW at 415...440 V AC 50/60 Hz AC-3 7.5 kW at 400 V AC 50/60 Hz AC-4
Motor power hp	2 hp at 115 V AC 50/60 Hz 1 phase motors 5 hp at 230/240 V AC 50/60 Hz 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz 3 phases motors 10 hp at 230/240 V AC 50/60 Hz 3 phases motors 20 hp at 460/480 V AC 50/60 Hz 3 phases motors 30 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	DC low consumption
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	50 A at $\leq 140^{\circ}\text{F}$ ( $60^{\circ}\text{C}$ ) power circuit 10 A at $\leq 140^{\circ}\text{F}$ ( $60^{\circ}\text{C}$ ) signalling circuit
Irms rated making capacity	550 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1
Rated breaking capacity	550 A at 440 V power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	138 A $\leq 104^{\circ}\text{F}$ ( $40^{\circ}\text{C}$ ) 1 min power circuit 260 A $\leq 104^{\circ}\text{F}$ ( $40^{\circ}\text{C}$ ) 10 s power circuit 430 A $\leq 104^{\circ}\text{F}$ ( $40^{\circ}\text{C}$ ) 1 s power circuit 60 A $\leq 104^{\circ}\text{F}$ ( $40^{\circ}\text{C}$ ) 10 min power circuit 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit
Associated fuse rating	63 A gG at $\leq 690\text{ V}$ coordination type 1 power circuit 63 A gG at $\leq 690\text{ V}$ coordination type 2 power circuit 10 A gG signalling circuit conforming to IEC 60947-5-1
Average impedance	2 mOhm at 50 Hz - Ith 50 A power circuit
[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.65 Mcycles 32 A AC-3 at $U_e \leq 440\text{ V}$ 1.4 Mcycles 50 A AC-1 at $U_e \leq 440\text{ V}$
Power dissipation per pole	2 W AC-3 5 W AC-1
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
Product certifications	BV CCC CSA DNV GL GOST RINA UL LROS
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) $0\ldots 0\text{ in}^2$ ( $1\ldots 2.5\text{ mm}^2$ ) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 1 cable(s) $0\ldots 0.02\text{ in}^2$ ( $1.5\ldots 10\text{ mm}^2$ ) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 1 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1\ldots 4\text{ mm}^2$ ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1\ldots 4\text{ mm}^2$ ) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1\ldots 4\text{ mm}^2$ ) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1\ldots 4\text{ mm}^2$ ) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1\ldots 4\text{ mm}^2$ ) - cable stiffness: solid - without cable end Power circuit: screw clamp terminals 1 cable(s) $0\ldots 0.02\text{ in}^2$ ( $2.5\ldots 10\text{ mm}^2$ ) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 2 cable(s) $0\ldots 0.02\text{ in}^2$ ( $2.5\ldots 10\text{ mm}^2$ ) - cable stiffness: flexible - without cable end Power circuit: screw clamp terminals 1 cable(s) $0\ldots 0.02\text{ in}^2$ ( $1\ldots 10\text{ mm}^2$ ) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminals 2 cable(s) $0\ldots 0.01\text{ in}^2$ ( $1.5\ldots 6\text{ mm}^2$ ) - cable stiffness: flexible - with cable end

	Power circuit: screw clamp terminals 2 cable(s) 0...0.02 in <sup>2</sup> (2.5...10 mm <sup>2</sup> ) - cable stiffness: solid - without cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 22.12 lbf.in (2.5 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 22.12 lbf.in (2.5 N.m) - on screw clamp terminals - with screwdriver Philips No 2
Operating time	65.45...88.55 ms closing 20...30 ms opening
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
Mechanical durability	30 Mcycles
Operating rate	3600 cyc/h at ≤ 140 °F (60 °C)

## Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.1...0.3 Uc drop-out at 140 °F (60 °C), DC 0.8...1.25 Uc operational at 140 °F (60 °C), DC
Time constant	40 ms
Inrush power in W	2.4 W at 68 °F (20 °C)
Hold-in power consumption in W	2.4 W at 68 °F (20 °C)
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
Signalling circuit frequency	25...400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 ms on energisation between NC and NO contact 1.5 ms on de-energisation between NC and NO contact
Insulation resistance	> 10 MOhm signalling circuit
Motor power range AC-3	7...11 kW 200...240 V 3 phases 15...25 kW 380...440 V 3 phases 15...25 kW 480...500 V 3 phases
Motor starter type	Direct on-line contactor
Contactor coil voltage	24 V DC low consumption

## Environment


IP degree of protection	IP2x front face conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30
Pollution degree	3
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Ambient air temperature for storage	-76...176 °F (-60...80 °C)
Permissible ambient air temperature around the device	-40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating in temperature
Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz Shocks contactor closed 15 Gn for 11 ms Shocks contactor open 8 Gn for 11 ms
Height	3.35 in (85 mm)
Width	1.77 in (45 mm)
Depth	3.98 in (101 mm)
Product weight	1.18 lb(US) (0.535 kg)

## Ordering and shipping details

Category	22345 - CTR,D-LINE,OPEN,NONREV-NEW
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Discount Schedule	I12
GTIN	00785901549512
Nbr. of units in pkg.	1
Package weight(Lbs)	1.3200000000000001
Returnability	Y
Country of origin	ID

### Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0721 - Schneider Electric declaration of conformity <a href="#"> Schneider Electric declaration of conformity</a>
REACH	Reference not containing SVHC above the threshold <a href="#">Reference not containing SVHC above the threshold</a>
Product environmental profile	Available
Product end of life instructions	Available

### Contractual warranty

Warranty period	18 months
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