

IEC contactor, TeSys Deca, nonreversing, 32A, 20HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D32BD

Product availability: Stock - Normally stocked in distribution facility

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 <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 32 A (at <140 °F (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)		
Maximum Horse Power Rating	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 phase motors		
	10 hp at 230/240 V AC 50/60 Hz for 3 phase motors		
	20 hp at 460/480 V AC 50/60 Hz for 3 phase motors		
	25 hp at 575/600 V AC 50/60 Hz for 3 phase motors		
Compatibility code	LC1D		
Pole contact composition	3 NO		
Protective cover	With		
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit		
current	50 A (at 140 °F (60 °C)) for power circuit		

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

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	
[lcw] rated short-time withstand	260 A 104 °F (40 °C) - 10 s for power circuit	
current	430 A 104 °F (40 °C) - 1 s for power circuit	
	60 A 104 °F (40 °C) - 10 min for power circuit	
	138 A 104 °F (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 IEC 60947-4-1	
[O.] ratea meananen vertage	Power circuit 600 V CSA	
	Power circuit 600 V UL	
	Signalling circuit 690 V IEC 60947-1	
	Signalling circuit 600 V CSA	
	Signalling circuit 600 V UL	
Overvoltage category	III	
pollution degree	3	
[Uimp] rated impulse withstand voltage	6 kV IEC 60947	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1	
y	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	30 Mcycles	
Electrical durability	·	
Electrical durability	1.65 Mcycles 32 A AC-3 <= 440 V	
	1.4 Mcycles 50 A AC-1 <= 440 V	
	1.65 Mcycles 32 A AC-3e <= 440 V	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.25 Uc (-40158 °F (-4070 °C)):drop-out DC	
	0.71.25 Uc (-40140 °F (-4060 °C)):operational DC	
	11.25 Uc (140158 °F (6070 °C)):operational DC	
Inrush power in W	5.4 W 68 °F (20 °C))	
	5.4 W 00 F (20 C))	
Hold-in power consumption in W	5.4 W 68 °F (20 °C)	
Operating time	63 ±15 % ms closing	
-	20 ±20 % ms opening	
 Time constant	29 mc	
Time constant	28 ms	
Maximum operating rate	3600 cyc/h at 60 °C	

Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable		
	stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable		
	stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end		
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable		
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable		
	stiffness: solid without cable end		
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end		
	Power circuit: screw clamp terminals 1 0.0040.02 in² (2.510 mm²) - cable		
	stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable		
	stiffness: flexible without cable end		
	Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness: flexible with cable end		
	Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable		
	stiffness: flexible with cable end		
	Power circuit: screw clamp terminals 1 0.0020.02 in ² (1.510 mm ²) - cable stiffness: solid without cable end		
	Power circuit: screw clamp terminals 2 0.0040.02 in ² (2.510 mm ²) - cable		
	stiffness: solid without cable end		
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm		
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm		
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2		
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2		
Auxiliary contact composition	1 NO +1 NC		
	INOTING		
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1		
Signalling circuit frequency	25400 Hz		
Minimum switching voltage	17 V for signalling circuit		
Minimum switching current	5 mA for signalling circuit		
Insulation resistance	> 10 MOhm 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		
Mounting Support	Rail		
	Plate		
Environment			
Environment			
Standards	CSA C22.2 No 14 EN 60947-4-1		
	EN 60947-4-1 EN 60947-5-1		
	IEC 60947-4-1		
	IEC 60947-5-1 UL 60947-4-1		
	IEC 60335-1:Clause 30.2		
	IEC 60335-2-40:Annex JJ		
	UL 60335-2-40:Annex JJ CSA C22.2 No 60947-4-1		
Product Certifications	UL		
	CCC		
	CSA Marine		
	Warine UKCA		
	EAC		
IP degree of protection	CB Scheme IP20 front face IEC 60529		
Protective treatment	THEC 60068-2-30		
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat		

Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) 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	3.3 in (85 mm)	
Width	1.8 in (45 mm)	
Depth	4.0 in (101 mm)	
Net Weight	1.179 lb(US) (0.535 kg)	

Ordering and shipping details

Category	US10l1222355
Discount Schedule	0112
GTIN	3389110357257
Returnability	Yes
Country of origin	SG

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.97 in (5.000 cm)
Package 1 Width	3.62 in (9.200 cm)
Package 1 Length	4.41 in (11.200 cm)
Package 1 Weight	20.635 oz (585.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	19.963 lb(US) (9.055 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	340.614 lb(US) (154.500 kg)

Contractual warranty

Warranty 18 months



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.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Carbon footprint (kg CO2 eq, 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
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
PVC free	Yes

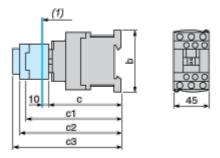
Use Again

○ Repack and remanufacture		
Circularity Profile	End of Life Information	
Take-back	No	

LC1D32BD

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

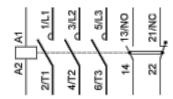
LC1		D25D38	D183D323
b		85	99
	without cover or add-on blocks	99	99
С	with cover, without add-on blocks	101	101
с1	with LAD N or C (2 or 4 contacts)	132	132
c2	with LA6 DK10	144	144
с3	with LAD T, R, S	152	152
	with LAD T, R, S and sealing cover	156	156

Product data sheet

LC1D32BD

Connections and Schema

Wiring



Product data sheet

LC1D32BD

Image of product / Alternate images

Alternative







LC1D32BD

Technical Illustration

Assembly's dimensions

