Product data sheet

Specification





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

LC1D32BL

Product availability: Stock - Normally stocked in distribution facility

Price*: 258.00 USD

Main

Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
contactor application	Motor control Resistive load
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

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

[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 50 A (at 140 °F (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	
[Icw] rated short-time withstand current	260 A 104 °F (40 °C) - 10 s for power circuit 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 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	
Overvoltage category Pollution degree	3	
Pollution degree [Uimp] rated impulse withstand	3	
Pollution degree [Uimp] rated impulse withstand voltage	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 1.65 Mcycles 32 A AC-3 <= 440 V 1.4 Mcycles 50 A AC-1 <= 440 V	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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 DC low consumption	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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 DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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 DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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 DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC	
Pollution degree [Uimp] rated impulse withstand voltage Safety reliability level Mechanical durability Electrical durability Control circuit type Coil technology Control circuit voltage limits Inrush power in W Hold-in power consumption in W	3 6 kV IEC 60947 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 30 Mcycles 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 DC low consumption Built-in bidirectional peak limiting diode suppressor 0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.81.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 2.4 W 68 °F (20 °C) 2.4 W 68 °F (20 °C) 77 ±15 % ms closing	

IP degree of protection	11 25 1151K 1850 125 55525		
IP degree of protection	IP20 front face IEC 60529		
	UKCA CB		
	CSA GOST		
	UL CCC		
	LROS (Lloyds register of shipping) RINA		
	DNV		
Product Certifications	GL BV		
	IEC 60335-1		
	IEC 60947-5-1 UL 508		
	IEC 60947-4-1		
	EN 60947-4-1 EN 60947-5-1		
Environment Standards	CSA C22.2 No 14		
Environment			
mounting oupport	Rail		
Mounting Support	1.5 ms on energisation between NC and NO contact Plate		
Non-overlap time	1.5 ms on de-energisation between NC and NO contact		
Insulation resistance	> 10 MOhm for signalling circuit		
Minimum switching current	17 V for signalling circuit 5 mA for signalling circuit		
Minimum switching voltage	25400 Hz		
	Mirror contact 1 NC IEC 60947-4-1		
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1		
Auxiliary contact composition	1 NO + 1 NC		
	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		
	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		
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		
	stiffness: solid without cable end		
	stiffness: solid without cable end Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable		
	stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.0020.02 in² (1.510 mm²) - cable		
	flexible with cable end Power circuit: screw clamp terminals 2 0.0020.009 in² (1.56 mm²) - cable		
	Power circuit: screw clamp terminals 1 0.0020.02 in² (110 mm²) - cable stiffness:		
	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 0.0040.02 in² (2.510 mm²) - cable stiffness: flexible without cable end		
	stiffness: solid without cable end		
	stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable		
	stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable		
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable		
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end		
	stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable		

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	US10l1222354
Discount Schedule	0112
GTIN	3389110361834
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.969 in (5.000 cm)
Package 1 Width	3.661 in (9.300 cm)
Package 1 Length	4.449 in (11.300 cm)
Package 1 Weight	20.811 oz (590.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	20.159 lb(US) (9.144 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	240
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	340.782 lb(US) (154.576 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Rohs Exemption Information

Yes



Pvc Free

Certifications & Standards

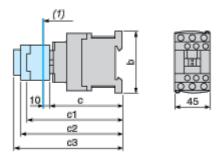
Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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

Jul 31, 2024

LC1D32BL

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

