



TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 24 V DC 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	
Contact Compatibility	M4	
Protective Cover	otective Cover With	
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit	
Thermal Current	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		
[Icw] Rated Short-Time Withstand Current	260 A 40 °C - 10 s for power circuit 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	
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	
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	53.5572.45 ms closing 1624 ms opening	
Time Constant	28 ms	
Maximum Operating Rate	3600 cyc/h 60 °C	

Connections - Terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable		
	end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with		
	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without		
	cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without		
	cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible without		
	cable end		
	Power circuit: screw clamp terminals 2 2.510 mm ² - cable stiffness: flexible without cable end		
	Power circuit: screw clamp terminals 1 110 mm ² - cable stiffness: flexible with cable end		
	Power circuit: screw clamp terminals 2 1.56 mm ² - cable stiffness: flexible with 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		
Tightening 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		
Auxiliary Contact Composition	Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 1 NO + 1 NC		
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	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			
Standards	CSA C22.2 No 14		
otaniaa ao	EN 60947-4-1		
	EN 60947-5-1 IEC 60947-4-1		
	IEC 60947-5-1		
	UL 508 IEC 60335-1		
Product Certifications	DNV		
	GL		
	CCC UL		
	GOST		
	BV		
	LROS (Lloyds register of shipping) RINA		
	CSA UKCA		
Ip Degree Of Protection	IP20 front face conforming to IEC 60529		
Protective Treatment	TH conforming to IEC 60068-2-30		
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	
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 12 months



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

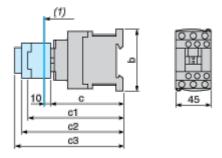
	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

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	

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

