

IEC contactor, TeSys D, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open

LC1D50BD

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys	
Range of Product	TeSys Deca	
Product or Component Type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Resistive load	
Utilisation category	AC-2 AC-4 AC-3 AC-3e AC-4	
Poles description	3P	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Motor power kW	25 kW at 415 V AC 50 Hz (AC-3)	
	30 kW at 440 V AC 50 Hz (AC-3)	
	30 kW at 500 V AC 50 Hz (AC-3)	
	33 kW at 660690 V AC 50 Hz (AC-3)	
	15 kW at 220230 V AC 50 Hz (AC-3)	
	11 kW at 400 V AC 50 Hz (AC-4)	
	30 kW at 1000 V AC 50 Hz (AC-3)	
	22 kW at 380400 V AC 50 Hz (AC-3e)	
	25 kW at 415 V AC 50 Hz (AC-3e)	
	30 kW at 440 V AC 50 Hz (AC-3e)	
	30 kW at 500 V AC 50 Hz (AC-3e)	
	33 kW at 660690 V AC 50 Hz (AC-3e)	
	15 kW at 220230 V AC 50 Hz (AC-3e)	
	30 kW at 1000 V AC 50 Hz (AC-3e)	
	22 kW at 380400 V AC 50 Hz (AC-3)	
Maximum Horse Power Rating	7.5 hp at 230/240 V AC 60 Hz for 1 phase motors	
	15 hp at 200/208 V AC 60 Hz for 3 phase motors	
	15 hp at 230/240 V AC 60 Hz for 3 phase motors	
	40 hp at 460/480 V AC 60 Hz for 3 phase motors	
	40 hp at 575/600 V AC 60 Hz for 3 phase motors	
	3 hp at 115 V AC 60 Hz for 1 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	80 A (at 140 °F (60 °C)) for power circuit
urrent 10 A (at 140 °F (60 °C)) for control circuit	
Irms rated making capacity	900 A at 440 V DC for power circuit conforming to IEC 60947
	900 A at 440 V for power circuit conforming to IEC 60947 250 A DC for control circuit conforming to IEC 60947-5-1
	250 A DC for control circuit comorming to IEC 60947-5-1
Rated breaking capacity 900 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	100 A gG at <= 690 V coordination type 1 for power circuit
	100 A gG at <= 690 V coordination type 2 for power circuit conforming to IEC
	60947-5-1 10 A gG for control circuit conforming to IEC 60947-5-1
Power dissipation per pole	9.6 W AC-1
Tower dissipation per pole	3.7 W AC-1
	3.7 W AC-3
[Ui] rated insulation voltage	Control circuit 600 V UL
	Power circuit 600 V CSA
	Power circuit 600 V UL IEC 60947-1
	Control circuit 690 V IEC 60947-1
	Power circuit 690 V IEC 60947-1
	Power circuit 1000 V CSA IEC 60947-4-1
	Control circuit 600 V CSA
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Mechanical durability	10000000 cycles
Control circuit type	DC wide range
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.751.25 Uc (-40140 °F (-4060 °C)):operational DC
	11.25 Uc (140158 °F (6070 °C)):operational DC
	0.10.3 Uc (-40158 °F (-4070 °C)):drop-out DC
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
Rated operational power in W	48 W 24 V DC-13 3000000 cycles - control circuit
	96 W 24 V DC-13 1000000 cycles - control circuit
	14 W 24 V DC-13 10000000 cycles - control circuit
Operating time	50 ±15 % ms closing
- p	20 ±20 % ms opening
Time constant	34 ms
Maximum operating rate	3600 cyc/h at 60 °C

Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: rigid without cable end	
	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 0.0020.004 in² (12.5 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	
	Power circuit: screw terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness: rigid	
	Power circuit: screw terminals 2 0.0040.02 in ² (2.516 mm ²) - cable stiffness: rigid without cable end	
	Power circuit: screw terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw terminals 2 0.0040.02 in² (2.516 mm²) - cable stiffness:	
	flexible without cable end	
	Power circuit: screw terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness: flexible with cable end	
	Power circuit: screw terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness:	
	flexible with cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable	
	stiffness: rigid	
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: rigid	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2	
	Power circuit 44.3 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
Minimum switching voltage	17 V for control circuit	
Minimum switching current	5 mA for control circuit	
Insulation resistance	> 10 MOhm for control circuit	
Non-overlap time	1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts	
Mounting Support	Plate Plate	
Environment		
Standards	00A 000 0 N - 44	
Stanuarus	CSA C22.2 No 14 IEC 60947-5-1	
	EN 60947-4-1 EN 60947-5-1	
	IEC 60947-4-1	
Product Certifications	CSA	
	DNV	
	RINA BV	
	CCC	
	UL GOST	
	GL GUS1	
	UKCA CCC	
IP degree of protection	IP2X VDE 0106	
Climatic withstand	IP2X IEC 60529	
Operating altitude	IACS E10 exposure to damp heat	
Fire resistance	09842.52 ft (03000 m) 1562 °F (850 °C) IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
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Mechanical robustness	Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor opened 10 Gn for 11 ms)	
Height	5.0000000000 in (127 mm)	
Width	3.3 in (85 mm)	
Depth	6.9 in (176 mm)	
Net Weight	4.817 lb(US) (2.185 kg)	

Ordering and shipping details

Category	US10I1222358	
Discount Schedule	0112	
GTIN	3389110420814	
Returnability	Yes	
Country of origin	CZ	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	3.54 in (9.0 cm)	
Package 1 Width	5.51 in (14.0 cm)	
Package 1 Length	7.28 in (18.5 cm)	
Package 1 Weight	4.782 lb(US) (2.169 kg)	
Unit Type of Package 2	S02	
Number of Units in Package 2	2	
Package 2 Height	5.91 in (15 cm)	
Package 2 Width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Package 2 Weight	10.646 lb(US) (4.829 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)	85
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant
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	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Technical Illustration

Assembly's dimensions

