

IEC contactor, TeSys D, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D40BD

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 Motor control	
Utilisation category	AC-2 AC-3 AC-1 AC-4 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 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	18.5 kW at 380400 V AC 50 Hz (AC-3)
	22 kW at 500 V AC 50 Hz (AC-3)
	30 kW at 660690 V AC 50 Hz (AC-3)
	22 kW at 1000 V AC 50 Hz (AC-3)
	22 kW at 415 V AC 50 Hz (AC-3)
	22 kW at 440 V AC 50 Hz (AC-3)
	11 kW at 220230 V AC 50 Hz (AC-3)
	9 kW at 400 V AC 50 Hz (AC-4)
	18.5 kW at 380400 V AC 50 Hz (AC-3e)
	22 kW at 500 V AC 50 Hz (AC-3e)
	30 kW at 660690 V AC 50 Hz (AC-3e)
	22 kW at 1000 V AC 50 Hz (AC-3e)
	22 kW at 415 V AC 50 Hz (AC-3e)
	22 kW at 440 V AC 50 Hz (AC-3e)
	11 kW at 220230 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	3 hp at 115 V AC 60 Hz for 1 phase motors
	5 hp at 230/240 V AC 60 Hz for 1 phase motors
	10 hp at 200/208 V AC 60 Hz for 3 phase motors
	10 hp at 230/240 V AC 60 Hz for 3 phase motors
	30 hp at 460/480 V AC 60 Hz for 3 phase motors
	30 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO

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

Protective cover With		
[lth] conventional free air thermal current	I 10 A (at 140 °F (60 °C)) for control circuit 60 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	250 A DC for control circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit	
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e	
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1 Power circuit 1000 V IEC 60947-4-1	
Overvoltage category	III	
[Uimp] rated impulse withstand voltage	8 kV IEC 60947	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	10000000 cycles	
Control circuit type	DC standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.10.3 Uc (-40158 °F (-4070 °C)):drop-out DC 0.751.25 Uc (-40140 °F (-4060 °C)):operational DC 11.25 Uc (140158 °F (6070 °C)):operational 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	14 W 24 V DC-13 10000000 cycles - control circuit 48 W 24 V DC-13 3000000 cycles - control circuit 96 W 24 V DC-13 1000000 cycles - control circuit	
Operating time	20 ±20 % ms opening 50 ±15 % ms closing	
Time constant	34 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: rigid	
	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: 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 clamp terminals 1 0.0040.04 in² (2.525 mm²) - cable	
	stiffness: rigid  Power circuit: screw clamp terminals 2 0.0040.02 in² (2.516 mm²) - cable stiffness: rigid	
	Power circuit: screw clamp terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.516 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness: flexible with cable end	
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm	
	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	
Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1	
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 de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts	
Mounting Support	Rail Plate	
Environment		
Standards	CSA C22.2 No 14	
	IEC 60947-4-1 UL 60947-4-1	
	EN 60947-4-1	
	IEC 60947-5-1 EN 60947-5-1	
Product Certifications	GL	
	BV	
	DNV LROS (Lloyds register of shipping)	
	RINA	
	UL	
	CCC CSA	
	GOST	
	UKCA CB	
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106	
Climatic withstand	IACS E10 exposure to damp heat	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) IEC 60695-2-1	

V1 conforming to UL 94

Flame retardance

Mechanical robustness	Shocks contactor opened 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz)	
Height	5 in (127 mm)	
Width	3.3 in (85 mm)	
Depth	6.9 in (176 mm)	
Product Weight	4 817 lb(US) (2 185 kg)	

## Ordering and shipping details

Category	US10I1222358
Discount Schedule	0112
GTIN	3389110416398
Returnability	Yes
Country of origin	CZ

# **Packing Units**

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	4.33 in (11.000 cm)
Package 1 Width	6.42 in (16.300 cm)
Package 1 Length	8.66 in (22.000 cm)
Package weight(Lbs)	4.974 lb(US) (2.256 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	2
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	10.759 lb(US) (4.880 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)	92
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 Label	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**



## LC1D40BD

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#### **Product benefits / Features**



## LC1D40BD

**Technical Illustration** 

### Assembly's dimensions

