

Contactor, TeSys Deca, 3P(3NO),AC-3/AC-3e/<=440V 65A, 24V DC coil, screw clamp terminals

LC1D65BD

Main

Range	TeSys	
Range of product	TeSys Deca	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control	
Utilisation category	AC-3 AC-2 AC-1 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	65 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 65 A (at <60 °C) at <= 440 V AC AC-3e for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

Motor power kW	30 kW at 380400 V AC 50 Hz 37 kW at 500 V AC 50 Hz 37 kW at 660690 V AC 50 Hz 18.5 kW at 220230 V AC 50 Hz 30 kW at 415 V AC 50 Hz 37 kW at 1000 V AC 50 Hz (AC-3) 11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 440 V AC 50 Hz (AC-3)
Motor power hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phases motors 20 hp at 230/240 V AC 60 Hz for 3 phases motors 40 hp at 460/480 V AC 60 Hz for 3 phases motors 50 hp at 575/600 V AC 60 Hz for 3 phases motors 5 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	80 A (at 60 °C) for power circuit 10 A (at 60 °C) for control circuit
Irms rated making capacity	1000 A at 440 V DC for power circuit conforming to IEC 60947 1000 A at 440 V for power circuit conforming to IEC 60947 250 A DC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V for power circuit conforming to IEC 60947

Associated fuse rating	125 A gG at <= 690 V coordination type 2 for power circuit 160 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1	
	125 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1	
Power dissipation per pole	6.4 W AC-1	
	4.2 W AC-3e 4.2 W AC-3	
[Ui] rated insulation voltage	Control circuit: 600 V UL certified	
	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified conforming to IEC 60947-1	
	Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1	
	Power circuit: 1000 V CSA certified conforming to IEC 60947-4-1	
	Control circuit: 600 V CSA certified	
Overvoltage category	III	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO	
	13849-1 B10d = 1369863 cycles contactor with nominal load conforming to 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 (-4060 °C):operational DC	
	11.25 Uc (6070 °C):operational DC 0.10.3 Uc (-4070 °C):drop-out DC	
Inrush power in W	19 W (at 20 °C)	
Hold-in power consumption in W	22 W at 20 °C	
Rated operational power in W	48 W at 24 V DC-13 - electrical durability: 3000000 cycles - for control circuit	
	96 W at 24 V DC-13 - electrical durability: 1000000 cycles - for control circuit 14 W at 24 V DC-13 - electrical durability: 10000000 cycles - for control circuit	
Operating time	50 ±15 % ms closing 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 14 mm² - cable stiffness: rigid without cable end	
	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 12.5 mm ² - cable stiffness: flexible with	
	cable end	
	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end	
	Power circuit: screw clamp terminals 1 2.525 mm ² - cable stiffness: rigid Power circuit: screw clamp terminals 2 2.516 mm ² - cable stiffness: rigid without	
	cable end	
	Power circuit: screw clamp terminals 1 2.525 mm ² - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 2.516 mm² - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: flexible with	
	cable end Power circuit: screw clamp terminals 2 2.5…10 mm² - cable stiffness: flexible with	
	cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid	
	Sable difficulties in the sable difficulties	
	Control circuit: 1.7 N m - on screw clamp terminal - with ecrewdriver Dhiling No. 2	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2	

Auxiliary contact composition	1 NO + 1 NC	
Auxiliary contacts type	type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to 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 Rail	

Standards	IEC 60947-5-1	
	IEC 60947-4-1	
	EN 60947-4-1	
	UL 60947-4-1	
	EN 60947-5-1	
Product certifications	GOST	
	LROS (Lloyds register of shipping)	
	DNV	
	CCC	
	CSA	
	GL	
	UL	
	RINA	
	UKCA	
IP degree of protection	IP2X conforming to VDE 0106	
dog. oo o. p. o.oo	IP2X conforming to IEC 60529	
	IPZA CONIONNING to IEC 00029	
Climatic withstand	conforming to IACS E10 exposure to damp heat	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
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)	
	Shocks contactor opened (10 Girlor 11 lils)	
Height	127 mm	
Width	85 mm	
Depth	176 mm	
Product weight	2.185 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	16.000 cm
Package 1 Length	21.600 cm
Package 1 Weight	2.268 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2

Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.824 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	
Total lifecycle Carbon footprint	99
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	
End of life manual availability	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

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Technical Illustration

Assembly's dimensions

