

LC1D1506CD

Contacteur, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 150A, 36V DC standard coil, lugs/bars terminals



Main

Range	TeSys TeSys
Range of product	TeSys Deca
Product or component type	Contacteur Contacteur
Device short name	LC1D[RETURN]LC1D
Contacteur application	Motor control Resistive load Resistive load Motor control
Utilisation category	AC-1 AC-3 AC-3 AC-2
Poles description	3P 3P
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 25...400 Hz Power circuit: <= 690 V AC 25...400 Hz
[Ie] rated operational current	200 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 150 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 150 A (at <60 °C) AC AC-3e for power circuit 50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	36 V DC 24 V AC 50/60 Hz

Complementary

Motor power kW	75 kW at 380...400 V AC 50 Hz 80 kW at 415...440 V AC 50 Hz 90 kW at 500 V AC 50 Hz 100 kW at 660...690 V AC 50 Hz 90 kW at 1000 V AC 50 Hz 40 kW at 220...230 V AC 50 Hz 22 kW at 380...400 V AC 50 Hz (AC-3) 25 kW at 415 V AC 50 Hz (AC-3)
Motor power hp	40 Hp at 200/208 V AC 60 Hz for 3 phases motors 50 Hp at 230/240 V AC 60 Hz for 3 phases motors 100 Hp at 460/480 V AC 60 Hz for 3 phases motors 125 Hp at 575/600 V AC 60 Hz for 3 phases motors 3 Hp at 115 V AC 60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 60 Hz for 1 phase motors
Compatibility code	LC1D LC1D
Pole contact composition	3 NO 3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 200 A (at 60 °C) for power circuit 80 A (at 60 °C) for power circuit
Irms rated making capacity	250 A DC for control circuit conforming to IEC 60947-5-1 1660 A at 440 V for power circuit conforming to IEC 60947 900 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 250 A gG at ≤ 690 V coordination type 2 for power circuit 315 A gG at ≤ 690 V coordination type 1 for power circuit
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 1000 V conforming to IEC 60947-1
Overvoltage category	III III
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Safety reliability level	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	8 Mcycles 15000000 cycles
Control circuit type	DC standard AC at 50/60 Hz
Coil technology	With integral suppression device Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.15...0.4 U_c (-40...70 °C):drop-out DC 0.75...1.2 U_c (-40...55 °C):operational DC 1...1.2 U_c (55...70 °C):operational DC 0.3...0.6 U_c (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.1 U_c (-40...60 °C):operational AC 50 Hz
Inrush power in W	270...365 W (at 20 °C)
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Hold-in power consumption in W	2.4...5.1 W at 20 °C
Heat dissipation	3...4.5 W at 50/60 Hz for control circuit
Operating time	20...35 ms closing 40...75 ms opening 4...19 ms opening 12...26 ms closing
Time constant	25 ms
Maximum operating rate	1200 cyc/h 60 °C
Connections - terminals	Control circuit: lugs - external diameter: 8 mm Power circuit: lugs - external diameter: 25 mm Power circuit: bars - busbar cross section: 5 x 25 mm Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: rigid Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: rigid
Tightening torque	Control circuit: 1.2 N.m - on lugs - with screwdriver Philips No 2 Control circuit: 1.2 N.m - on lugs - with screwdriver flat Ø 6 mm Power circuit: 12 N.m hexagonal screw head 13 mm Control circuit: 1.2 N.m - on lugs - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2
Auxiliary contact composition	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
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 Plate Rail

Environment

Standards	IEC 60947-4-1 EN 60947-4-1 EN 60947-5-1 CSA C22.2 No 14 IEC 60947-5-1 UL 508
Product certifications	LROS (Lloyds register of ship- ping)[RETURN]BV[RETURN]GL[RETURN]GOST[RETURN]RINA[RETURN]DNV[RETURN]CC
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Climatic withstand	Conforming to IACS E10 exposure to damp heat Conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Operating altitude	0...3000 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) Shocks contactor opened (6 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz) Shocks contactor opened (10 Gn for 11 ms)
Height	158 Mm 122 mm
Width	120 Mm 55 mm
Depth	132 Mm 120 mm
Net weight	2.5 Kg 1.4 kg
Quantity per set	Set of 10

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty	18 months
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