

Product data sheet

Specifications



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

LC1D1506CD

! Discontinued

Main

Range	TeSys TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor Contactor
Device short name	LC1D LC1D
Contactor 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 <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 150 A (at <140 °F (60 °C)) AC AC-3e for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (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)
Maximum Horse Power Rating	40 hp at 200/208 V AC 60 Hz for 3 phase motors 50 hp at 230/240 V AC 60 Hz for 3 phase motors 100 hp at 460/480 V AC 60 Hz for 3 phase motors 125 hp at 575/600 V AC 60 Hz for 3 phase 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

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

Disclaimer: 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

Pole contact composition	3 NO
	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for control circuit 200 A (at 140 °F (60 °C)) for power circuit 80 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 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
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 Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 1000 V IEC 60947-1
Overvoltage category	III III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	8 Mcycles 15000000 cycles
Control circuit type	DC standard AC 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 Uc (-40...158 °F (-40...70 °C)):drop-out DC 0.75...1.2 Uc (-40...131 °F (-40...55 °C)):operational DC 1...1.2 Uc (131...158 °F (55...70 °C)):operational DC 0.3...0.6 Uc (-40...158 °F (-40...70 °C)):drop-out AC 50/60 Hz 0.8...1.1 Uc (-40...140 °F (-40...60 °C)):operational AC 50 Hz
Inrush power in W	270...365 W 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Hold-in power consumption in W	2.4...5.1 W 68 °F (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 at 60 °C
Connections - terminals	Control circuit: lugs - external diameter: 0.3 in (8 mm) Power circuit: lugs - external diameter: 1.0 in (25 mm) Power circuit: bars - busbar cross section: 5 x 25 mm Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: rigid Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: rigid

Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) lugs Philips No 2 Control circuit 10.6 lbf.in (1.2 N.m) lugs flat Ø 6 mm Power circuit 106.2 lbf.in (12 N.m) hexagonal 0.5 in (13 mm) Control circuit 10.6 lbf.in (1.2 N.m) lugs pozidriv No 2 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
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 Plate Rail

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
Product Certifications	UL CCC CSA CE UKCA Marine EAC
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
Climatic withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) 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	6.2 in (158 mm) 4.8 in (122 mm)
Width	4.7 in (120 mm) 2.2 in (55 mm)
Depth	5.2 in (132 mm) 4.7 in (120 mm)
Net Weight	5.5 lb(US) (2.5 kg) 3.09 lb(US) (1.4 kg)
Quantity per Set	Set of 10

Ordering and shipping details

Category	22359-CTR,TESYS D,OPEN,80-150A AC&DC
Discount Schedule	I12
GTIN	3389110726732
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Contractual warranty

Warranty (in months)	18
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Environmental Data

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 >](#)

Use Longer

Lifetime extension	
Repair	No