

Product data sheet

Specifications



IEC contactor, TeSys D, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 480VAC 60Hz coil, open style

LC1D40T6

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	Motor control Resistive load
Utilisation category	AC-1 AC-4 AC-2 AC-3 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	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-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	480 V AC 60 Hz

Complementary

Motor power kW	18.5 kW at 380...400 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660...690 V AC 50/60 Hz 11 kW at 220...230 V AC 50/60 Hz 22 kW at 1000 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz
Maximum Horse Power Rating	10 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to CSA 10 hp at 200/208 V AC 60 Hz for 3 phase motors conforming to UL 10 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to CSA 10 hp at 230/240 V AC 60 Hz for 3 phase motors conforming to UL 3 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 3 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL 30 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to CSA 30 hp at 460/480 V AC 60 Hz for 3 phase motors conforming to UL 30 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to CSA 30 hp at 575/600 V AC 60 Hz for 3 phase motors conforming to UL 5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL
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.

[I_{th}] conventional free air thermal current	10 A (at 140 °F (60 °C)) for control circuit 60 A (at 140 °F (60 °C)) for power circuit
I_{rms} rated making capacity	140 A AC 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
Average impedance	1.5 mOhm - I _{th} 60 A 50 Hz for power circuit
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e
[U_i] 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
Overvoltage category	III
[U_{imp}] rated impulse withstand voltage	6 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	6000000 cycles
Control circuit type	AC 60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.85...1.1 Uc (140 °F (60 °C)):operational AC 60 Hz 0.3...0.6 Uc (140 °F (60 °C)):drop-out AC 60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 68 °F (20 °C)) 160 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 15 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	4...5 W at 50/60 Hz for control circuit
Operating time	12...26 ms closing 4...19 ms opening
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: solid with cable end Power circuit: screw clamp terminals 2 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: solid with cable end Power circuit: screw clamp terminals 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.004...0.04 in ² (2.5...25 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 0.004...0.05 in ² (2.5...35 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 0.004...0.05 in ² (2.5...35 mm ²) - 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 clamp terminal flat Ø 6 mm Power circuit 44.3 lbf.in (5 N.m) screw clamp terminal flat 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	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 de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Mounting Support	Rail Plate

Environment

Standards	UL 60947-4-1 EN 60947-5-1 EN 60947-4-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14
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
Permissible ambient air temperature around the device	23...140 °F (-5...60 °C) -40...158 °F (-40...70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor opened 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms Vibrations contactor opened 2 Gn, 5...300 Hz Vibrations contactor closed 4 Gn, 5...300 Hz)
Height	5 in (127 mm)
Width	3.0 in (75 mm)
Depth	4.7 in (119 mm)
Net Weight	3.09 lb(US) (1.4 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0I12

GTIN	3389110417739
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.118 in (13.000 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	5.118 in (13.000 cm)
Package weight(Lbs)	3.086 lb(US) (1.400 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	18
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	56.482 lb(US) (25.620 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	144
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	469.497 lb(US) (212.960 kg)

Contractual warranty

Warranty	18 months
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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 >](#)

Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	66
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Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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

TeSys Deca Contactors

Technical Benefits

Offer Marketing Illustration

Product benefits / Features



TeSys Deca Contactors

Range Accessories

Contactor
Coil

Auxiliary contact block

Time delay auxiliary
contact blockPower
connectionsMechanical
interlockAssembling
kitsComb
busbar

Offer Marketing Illustration

Offer Marketing Illustration

Product benefits / Features

TeSys Deca Contactors

Reliable



Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.

Energy efficiency



These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.



Universal



Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine). Green Premium compliant (RoHS/REACH).

Technical Illustration

Assembly's dimensions

