Product data sheet

Specifications





IEC contactor, TeSys D, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 208VAC 60Hz coil, open style

LC1D40L6

Product availability: Stock - Normally stocked in distribution facility

Price*: 541.80 USD

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-2 AC-3 AC-4 AC-3e	
poles description	3P	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	60 A (at <140.000000000 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 40 A (at <140.000000000 °F (60 °C)) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	200 V AC 60 Hz	

Complementary

Motor power kW	18.5 kW at 380400 V AC 50/60 Hz
•	22 kW at 500 V AC 50/60 Hz
	30 kW at 660690 V AC 50/60 Hz
	11 kW at 220230 V AC 50/60 Hz
	22 kW at 1000 V AC 50/60 Hz
	22 kW at 1000 V AC 50/60 Hz
	22 kW at 440 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

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
[Ith] conventional free air thermal	
current	10 A (at 140.0000000000 °F (60 °C)) for control circuit 60 A (at 140.0000000000 °F (60 °C)) for power circuit
Irms 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 - Ith 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
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V OSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
Overvoltage category	III
[Uimp] 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	0.851.1 Uc 140.000000000 °F (60 °C) operational AC 60 Hz 0.30.6 Uc 140.0000000000 °F (60 °C) drop-out AC 60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 68.0000000000 °F (20 °C)) 160 VA cos phi 0.75 (at 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	13 VA 50 Hz cos phi 0.3 (at 68.000000000 °F (20 °C)) 15 VA 60 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))
Heat dissipation	45 W at 50/60 Hz for control circuit
Operating time	1226 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 140.000000000 °F (60 °C)
Connections - terminals	Control circuit: screw clamp terminal 1 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 0.0020.006 in² (14 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: solid with cable end Power circuit: screw clamp terminal 1 0.0040.05 in² (2.535 mm²) - cable stiffness: solid with cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: solid with cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 1 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 1 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 2 0.0040.05 in² (2.535 mm²) - cable stiffness: flexible with cable end

Tightoning torque	Ountral size it 45.05 lbf is (4.7 N st) second laws to still flat (6.0 second	
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	Plate	
	Rail	

Environment

Standards	IEC 60947-5-1 EN 60947-5-1 EN 60947-4-1 IEC 60947-4-1 CSA C22.2 No 14	
	UL 508	
Product Certifications	CSA UL GOST RINA BV DNV GL LROS (Lloyds register of shipping) CCC UKCA	
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	23.000000000140.0000000000 °F (-560 °C) -40.000000000158.0000000000 °F (-4070 °C) at Uc	
Operating altitude	9842.52 ft (3000 m) without derating	
Fire resistance	1562.000000000 °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, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz)	
Height	5.000000000 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	0112	
GTIN	3389110417166	

Returnability	Yes
Country of origin	US

Packing Units

PCE
1
5.118 in (13.000 cm)
3.543 in (9.000 cm)
5.118 in (13.000 cm)
3.086 lb(US) (1.400 kg)
S03
18
11.8 in (30 cm)
11.8 in (30 cm)
15.7 in (40 cm)
56.482 lb(US) (25.620 kg)
P06
144
29.528 in (75.000 cm)
31.496 in (80.000 cm)
23.622 in (60.000 cm)
469.497 lb(US) (212.960 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	No need of specific recycling operations
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