Product data sheet

Specifications





IEC contactor, TeSys D, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open

LC1D50F7

Product availability: Stock - Normally stocked in distribution facility

Price*: 388.80 USD

Main

Range	TeSys	
Range of Product	TeSys Deca	
Product or Component Type	Contactor	
Device short name	LC1D	
contactor application	Resistive load Motor control	
Utilisation category	AC-1 AC-4 AC-3 AC-3e AC-1	
poles description	3P	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	80 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 50 A (at <140.00000000000 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
[Uc] control circuit voltage	110 V DC	

Complementary

Motor power kW	25 kW at 415 V AC 50 Hz (AC-3)	
	30 kW at 440 V AC 50 Hz (AC-3)	
	30 kW at 500 V AC 50 Hz (AC-3)	
	33 kW at 660690 V AC 50 Hz (AC-3)	
	15 kW at 220230 V AC 50 Hz (AC-3)	
	11 kW at 400 V AC 50 Hz (AC-4)	
	30 kW at 1000 V AC 50 Hz (AC-3)	
	22 kW at 380400 V AC 50 Hz (AC-3e)	
	25 kW at 415 V AC 50 Hz (AC-3e)	
	30 kW at 440 V AC 50 Hz (AC-3e)	
	30 kW at 500 V AC 50 Hz (AC-3e)	
	33 kW at 660690 V AC 50 Hz (AC-3e)	
	15 kW at 220230 V AC 50 Hz (AC-3e)	
	30 kW at 1000 V AC 50 Hz (AC-3e)	
	25 kW at 415 V AC 50 Hz	
	22 kW at 380400 V AC 50 Hz	
Maximum Horse Power Rating	7.5 hp at 230/240 V AC 60 Hz for 1 phase motors	_
	15 hp at 200/208 V AC 60 Hz for 3 phase motors	
	15 hp at 230/240 V AC 60 Hz for 3 phase motors	

40 hp at 460/480 V AC 60 Hz for 3 phase motors 40 hp at 575/600 V AC 60 Hz for 3 phase motors 3 hp at 115 V AC 60 Hz for 1 phase motors

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

Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[lth] conventional free air thermal current	80 A (at 140.0000000000 °F (60 °C)) for power circuit 10 A (at 140.0000000000 °F (60 °C)) for control circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 900 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	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit conforming to IEC 60947-5-1 10 A gG for control circuit conforming to IEC 60947-5-1
Power dissipation per pole	9.6 W AC-1 3.7 W AC-3e 3.7 W AC-3
[Ui] rated insulation voltage	Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL IEC 60947-1 Control circuit 690 V IEC 60947-1 Power circuit 690 V CSA IEC 60947-1 Control circuit 600 V CSA
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Mechanical durability	10000000 cycles
Control circuit type	DC standard
Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.81.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140.0000000000158.0000000000 °F (6070 °C) operational AC 50/60 Hz 0.751.25 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational DC 0.10.3 Uc -40.00000000000158.00000000000 °F (-4070 °C) drop-out DC
Inrush power in VA	160 VA cos phi 0.75 (at 68.00000000000 °F (20 °C))
Inrush power in W	19 W 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	15 VA 50 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C))
Hold-in power consumption in W	7.4 W 68.0000000000 °F (20 °C)
Operating time	1226 ms closing 50 ms closing 20 ms opening
Time constant	34 ms
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)

Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: rigid without cable end
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable
	stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.004 in² (12.5 mm²) - cable
	stiffness: flexible with cable end
	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end
	Power circuit: screw terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness: rigid
	Power circuit: screw terminals 2 0.0040.02 in ² (2.516 mm ²) - cable stiffness: rigid without cable end
	Power circuit: screw terminals 1 0.0040.04 in² (2.525 mm²) - cable stiffness:
	flexible without cable end Power circuit: screw terminals 2 0.0040.02 in² (2.516 mm²) - cable stiffness:
	flexible without cable end
	Power circuit: screw terminals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: flexible with cable end
	Power circuit: screw terminals 2 0.0040.02 in² (2.510 mm²) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: rigid
	Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable
	stiffness: rigid
Tightening torque	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 terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm
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 energisation between NC and NO contacts1.5 ms on de-energisation between NC and NO contacts
Mounting Support	Rail
	Rail
Environment	
Standards	CSA C22.2 No 14
	IEC 60947-4-1
	IEC 60947-5-1 EN 60947-5-1
	EN 60947-4-1
Product Certifications	GL LROS (Lloyds register of shipping)
	RINA
	CCC BV
	DNV
	GOST CSA
	UKCA GL
	GL
IP degree of protection	IP2X VDE 0106 IP2X IEC 60529
Climatic withstand	IACS E10 exposure to damp heat
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562.0000000000 °F (850 °C) 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)
Height	5.0000000000 in (127 mm)
Width	3.3 in (85 mm)
Depth	6.9 in (176 mm)
Net Weight	4 817 lb(US) (2 185 kg)

Ordering and shipping details

Category	US10I1222357	
Discount Schedule	0112	
GTIN	3389110421392	
Returnability	Yes	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.7 in (9.5 cm)
Package 1 Width	5.2 in (13.2 cm)
Package 1 Length	5.5 in (14.0 cm)
Package 1 Weight	3.192 lb(US) (1.448 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	16.618 lb(US) (7.538 kg)

Contractual warranty

Warranty 18 months



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
Ø	Toxic Heavy Metal Free
Ø	Mercury Free
Ø	Rohs Exemption Information Yes
②	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