Specifications



IEC contactor, TeSys D, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open

LC1D40F7

Product availability: Stock - Normally stocked in distribution facility

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-3 AC-1 AC-4 AC-2 AC-3e	
Poles description	ЗР	
[Ue] rated operational voltage	Power circuit <= 690 V AC 25400 Hz	
[le] rated operational current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 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-3e for power circuit	
[Uc] control circuit voltage	110 V AC 50/60 Hz	

Main

Complementary

Motor power kW	18.5 kW at 380400 V AC 50 Hz (AC-3)	
	22 kW at 500 V AC 50 Hz (AC-3)	
	30 kW at 660690 V AC 50 Hz (AC-3)	
	22 kW at 1000 V AC 50 Hz (AC-3)	
	22 kW at 415 V AC 50 Hz (AC-3)	
	22 kW at 440 V AC 50 Hz (AC-3)	
	11 kW at 220230 V AC 50 Hz (AC-3)	
	9 kW at 400 V AC 50 Hz (AC-4)	
	18.5 kW at 380400 V AC 50 Hz (AC-3e)	
	22 kW at 500 V AC 50 Hz (AC-3e)	
	30 kW at 660690 V AC 50 Hz (AC-3e)	
	22 kW at 1000 V AC 50 Hz (AC-3e)	
	22 kW at 415 V AC 50 Hz (AC-3e)	
	22 kW at 440 V AC 50 Hz (AC-3e)	
	11 kW at 220230 V AC 50 Hz (AC-3e)	
Maximum Horse Power Rating	3 hp at 115 V AC 60 Hz for 1 phase motors	
	5 hp at 230/240 V AC 60 Hz for 1 phase motors	
	10 hp at 200/208 V AC 60 Hz for 3 phase motors	
	10 hp at 230/240 V AC 60 Hz for 3 phase motors	
	30 hp at 460/480 V AC 60 Hz for 3 phase motors	
	30 hp at 575/600 V AC 60 Hz for 3 phase motors	
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 °F (60 °C)) for control circuit 60 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	800 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	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	
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 CSA 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	8 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 50/60 Hz	
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.6 Uc (-40158 °F (-4070 °C)):drop-out AC 50/60 Hz 0.81.1 Uc (-40140 °F (-4060 °C)):operational AC 50 Hz 0.851.1 Uc (-40140 °F (-4060 °C)):operational AC 60 Hz 11.1 Uc (140158 °F (6070 °C)):operational AC 50/60 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	 A 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)) 	
Heat dissipation	45 W at 50/60 Hz for control circuit	
Operating time	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: rigid Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: rigid Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.004 in ² (12.5 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 0.0020.004 in ² (12.5 mm ²) - cable stiffness: flexible with cable end Power circuit: screw trainals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: rigid Power circuit: screw terminals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: rigid Power circuit: screw terminals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: flexible with cable end Power circuit: screw terminals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: flexible without cable end Power circuit: screw terminals 1 0.0040.02 in ² (2.516 mm ²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.0040.02 in ² (2.516 mm ²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.0040.02 in ² (2.516 mm ²) - cable stiffness: flexible without cable end Power circuit: screw terminals 1 0.0040.04 in ² (2.525 mm ²) - cable stiffness: flexible without cable end Power circuit: screw terminals 2 0.0040.02 in ² (2.510 mm ²) - cable stiffness: flexible with cable end Power circuit: screw terminals 2 0.0040.02 in ² (2.510 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 terminal flat Ø 6 to 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	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	

Environment

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Standards	EN 60947-5-1 IEC 60947-5-1 EN 60947-4-1 UL 508 IEC 60947-4-1 CSA C22.2 No 14	
Product Certifications	DNV GL CCC LROS (Lloyds register of shipping) RINA BV GOST UL CSA CB	
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106	
Climatic withstand	IACS E10 exposure to damp heat	
Operating altitude	09842.52 ft (03000 m)	
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, 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	3389110416916	
Returnability	Yes	
Country of origin	CZ	

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	3.74 in (9.5 cm)	
Package 1 Width	5.20 in (13.2 cm)	
Package 1 Length	5.51 in (14.0 cm)	
Package 1 Weight	3.170 lb(US) (1.438 kg)	
Unit Type of Package 2	S02	
Number of Units in Package 2	5	
Package 2 Height	5.91 in (15 cm)	
Package 2 Width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	
Package 2 Weight	16.526 lb(US) (7.496 kg)	

Contractual warranty

Warranty

18 months

Lenvironmental 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 \geq

${\mathcal Q}$ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	56
Environmental Disclosure	Product Environmental Profile

Use Better

☺ Materials and Substances	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
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

\circlearrowright Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	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



Offer Marketing Illustration

Product benefits / Features



LC1D40F7

Offer Marketing Illustration

Product benefits / Features



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Technical Illustration

Assembly's dimensions

