

Product data sheet

Specifications



IEC contactor, TeSys D,
nonreversing, 65A, 40HP at
480VAC, up to 100kA SCCR, 3
phase, 3 NO, 110VAC 50/60Hz coil,
open

LC1D65F7

Product availability: Stock - Normally stocked in distribution facility

Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactors
Device short name	LC1D
Contactors application	Resistive load Motor control
Utilisation category	AC-2 AC-4 AC-1 AC-3e AC-4
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	110 V DC

Complementary

Motor power kW	11 kW at 400 V AC 50 Hz (AC-4) 30 kW at 380...400 V AC 50 Hz (AC-3) 37 kW at 500 V AC 50 Hz (AC-3) 37 kW at 660...690 V AC 50 Hz (AC-3) 18.5 kW at 220...230 V AC 50 Hz (AC-3) 30 kW at 415 V AC 50 Hz (AC-3) 37 kW at 1000 V AC 50 Hz (AC-3) 30 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 380...400 V AC 50 Hz (AC-3e) 37 kW at 500 V AC 50 Hz (AC-3e) 37 kW at 660...690 V AC 50 Hz (AC-3e) 18.5 kW at 220...230 V AC 50 Hz (AC-3e) 30 kW at 415 V AC 50 Hz (AC-3e) 37 kW at 1000 V AC 50 Hz (AC-3e) 30 kW at 380...400 V AC 50 Hz 30 kW at 440 V AC 50 Hz
Maximum Horse Power Rating	10 hp at 230/240 V AC 60 Hz for 1 phase motors 20 hp at 200/208 V AC 60 Hz for 3 phase motors 20 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 50 hp at 575/600 V AC 60 Hz for 3 phase motors 5 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility code	LC1D

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

Pole contact composition	3 NO
Protective cover	With
[I_{th}] conventional free air thermal current	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for control circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 1000 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	1000 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	125 A gG at ≤ 690 V coordination type 2 for power circuit 160 A gG at ≤ 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1 125 A gG at ≤ 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1
Power dissipation per pole	6.4 W AC-1 4.2 W AC-3e 4.2 W AC-3
[U_i] 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
[U_{imp}] 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	0.8...1.1 U _c (-40...140 °F (-40...60 °C)):operational AC 50 Hz 0.85...1.1 U _c (-40...140 °F (-40...60 °C)):operational AC 60 Hz 1...1.1 U _c (140...158 °F (60...70 °C)):operational AC 50/60 Hz 0.75...1.25 U _c (-40...140 °F (-40...60 °C)):operational DC 0.1...0.3 U _c (-40...158 °F (-40...70 °C)):drop-out DC
Inrush power in VA	160 VA cos phi 0.75 (at 68 °F (20 °C))
Inrush power in W	19 W 68 °F (20 °C))
Hold-in power consumption in VA	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Hold-in power consumption in W	7.4 W 68 °F (20 °C)
Operating time	12...26 ms closing 50 ms closing 20 ms opening
Time constant	34 ms
Maximum operating rate	3600 cyc/h at 60 °C

Connections - terminals	<p>Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: rigid without cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.004 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw terminals 1 0.004...0.04 in² (2.5...25 mm²) - cable stiffness: rigid</p> <p>Power circuit: screw terminals 2 0.004...0.02 in² (2.5...16 mm²) - cable stiffness: rigid without cable end</p> <p>Power circuit: screw terminals 1 0.004...0.04 in² (2.5...25 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw terminals 2 0.004...0.02 in² (2.5...16 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw terminals 1 0.004...0.04 in² (2.5...25 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw terminals 2 0.004...0.02 in² (2.5...10 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: rigid</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: rigid</p>
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Tightening torque	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2</p> <p>Power circuit 44.3 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm</p>
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Auxiliary contact composition	1 NO + 1 NC
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Auxiliary contacts type	<p>Mirror contact 1 NC IEC 60947-4-1</p> <p>Mechanically linked 1 NO + 1 NC IEC 60947-5-1</p>
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Minimum switching voltage	17 V for control circuit
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Minimum switching current	5 mA for control circuit
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Insulation resistance	> 10 MOhm for control circuit
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Non-overlap time	<p>1.5 ms on energisation between NC and NO contacts</p> <p>1.5 ms on de-energisation between NC and NO contacts</p>
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Mounting Support	<p>Rail</p> <p>Plate</p>
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Environment

Standards	<p>EN 60947-5-1</p> <p>UL 508</p> <p>CSA C22.2 No 14</p> <p>IEC 60947-5-1</p> <p>EN 60947-4-1</p>
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Product Certifications	<p>CCC</p> <p>GOST</p> <p>CSA</p> <p>RINA</p> <p>LROS (Lloyds register of shipping)</p> <p>BV</p> <p>GL</p> <p>UL</p> <p>UKCA</p> <p>DNV</p>
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IP degree of protection	<p>IP2X VDE 0106</p> <p>IP2X IEC 60529</p>
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Climatic withstand	IACS E10 exposure to damp heat
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Operating altitude	0...9842.52 ft (0...3000 m)
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Fire resistance	1562 °F (850 °C) IEC 60695-2-1
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Flame retardance	V1 conforming to UL 94
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Mechanical robustness	Shocks contactor closed 15 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	5 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	US1011222357
Discount Schedule	0112
GTIN	3389110436877
Returnability	Yes
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	5.51 in (14.000 cm)
Package 1 Width	5.20 in (13.200 cm)
Package 1 Length	3.74 in (9.500 cm)
Package weight(Lbs)	3.188 lb(US) (1.446 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.592 lb(US) (7.526 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) **83**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

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

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.**

Technical Illustration

Assembly's dimensions

