

IEC contactor, TeSys Deca, nonreversing, 150A, 100HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, open

LC1D150F7

① To be discontinued

! To be discontinued on: Dec 31, 2026

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-4 AC-3 AC-1 AC-3e
Poles description	3P
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 150 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

Complementary

Motor power kW	40 kW at 220230 V AC 50/60 Hz (AC-3)		
	75 kW at 380400 V AC 50/60 Hz (AC-3)		
	80 kW at 415440 V AC 50/60 Hz (AC-3)		
	90 kW at 500 V AC 50/60 Hz (AC-3)		
	100 kW at 660690 V AC 50/60 Hz (AC-3)		
	75 kW at 1000 V AC 50/60 Hz (AC-3)		
	22 kW at 400 V AC 50/60 Hz (AC-4)		
	40 kW at 220230 V AC 50/60 Hz (AC-3e)		
	75 kW at 380400 V AC 50/60 Hz (AC-3e)		
	80 kW at 415440 V AC 50/60 Hz (AC-3e)		
	90 kW at 500 V AC 50/60 Hz (AC-3e)		
	100 kW at 660690 V AC 50/60 Hz (AC-3e)		
	75 kW at 1000 V AC 50/60 Hz (AC-3e)		
Maximum Horse Power Rating	40 hp at 200/208 V AC 50/60 Hz for 3 phase motors		
	50 hp at 230/240 V AC 50/60 Hz for 3 phase motors		
	100 hp at 460/480 V AC 50/60 Hz for 3 phase motors		
	125 hp at 575/600 V AC 50/60 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	200 A (at 140 °F (60 °C)) for power circuit	
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1660 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	250 A 104 °F (40 °C) - 10 min for power circuit 580 A 104 °F (40 °C) - 1 min for power circuit 1200 A 104 °F (40 °C) - 10 s for power circuit 1400 A 104 °F (40 °C) - 1 s for power circuit 1400 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit	
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit	
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e	
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL	
Overvoltage category	III	
pollution degree	3	
[Uimp] rated impulse withstand voltage	8 kV IEC 60947	
Safety reliability level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	8 Mcycles	
Electrical durability	0.85 Mcycles 150 A AC-3 <= 440 V 1 Mcycles 200 A AC-1 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V	
Control circuit type	AC 50/60 Hz standard	
Coil technology	Built-in bidirectional peak limiting diode suppressor	
Control circuit voltage limits	0.30.5 Uc (-40158 °F (-4070 °C)):drop-out AC 50/60 Hz 0.81.15 Uc (-40131 °F (-4055 °C)):operational AC 50/60 Hz 11.15 Uc (131158 °F (5570 °C)):operational AC 50/60 Hz	
Inrush power in VA	280350 VA 60 Hz cos phi 0.9 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.9 (at 68 °F (20 °C))	
Hold-in power consumption in VA	218 VA 60 Hz cos phi 0.9 (at 68 °F (20 °C)) 218 VA 50 Hz cos phi 0.9 (at 68 °F (20 °C))	
Heat dissipation	34.5 W at 50/60 Hz	
Operating time	2035 ms closing 4075 ms opening	
Maximum operating rate	1200 cyc/h at 60 °C	

Connections - terminals	Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible with 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 1 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: flexible without cable end Control circuit: screw clamp terminals 1 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: solid without cable end Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable	
	stiffness: solid without cable end Power circuit: connector 1 0.020.2 in² (10120 mm²) - cable stiffness: flexible	
	without cable end Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible without cable end	
	Power circuit: connector 1 0.020.2 in ² (10120 mm ²) - cable stiffness: flexible with cable end	
	Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible with cable end	
	Power circuit: connector 1 0.020.2 in² (10120 mm²) - cable stiffness: solid without cable end	
	Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end	
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals 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	
Signalling circuit frequency	25400 Hz	
Minimum switching voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm for signalling circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact	
Mounting Support	Plate Rail	
Environment		
Standards	CSA C22.2 No 14 EN 60947-4-1 IEC 60947-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ UL 60947-4-1 CSA C22.2 No 60947-4-1	
	JIS C8201-4-1	
Product Certifications	UL	

Otanidards	EN 60947-4-1	
	IEC 60947-4-1	
	IEC 60335-1:Clause 30.2	
	IEC 60335-2-40:Annex JJ	
	UL 60335-2-40:Annex JJ	
	UL 60947-4-1	
	CSA C22.2 No 60947-4-1	
	JIS C8201-4-1	
Product Certifications	UL	
	CCC	
	CSA	
	CE	
	UKCA	
	Marine	
	EAC	
IP degree of protection	IP20 front face IEC 60529	
Protective treatment	THIEC 60068-2-30	
Climatic withstand	IACS E10 exposure to damp heat	
Permissible ambient air temperature around the device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	

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	Vibrations contactor open 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor closed 15 Gn for 11 ms) Shocks contactor open 6 Gn for 11 ms)	
Height	6.2 in (158 mm)	
Width	4.7 in (120 mm)	
Depth	5.4 in (136 mm)	
Net Weight	5.5 lb(US) (2.5 kg)	

Ordering and shipping details

Category	US10I1222359	
Discount Schedule	0112	
GTIN	3389110527247	
Returnability	Yes	
Country of origin	CZ	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.87 in (20.000 cm)
Package 1 Width	7.87 in (20.000 cm)
Package 1 Length	9.84 in (25.000 cm)
Package 1 Weight	5.490 lb(US) (2.490 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	27
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	23.62 in (60.000 cm)
Package 2 Length	31.50 in (80.000 cm)
Package 2 Weight	176.877 lb(US) (80.230 kg)

Contractual warranty

Warranty 18 months



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)	115
Environmental Disclosure	Product Environmental Profile

Use Better

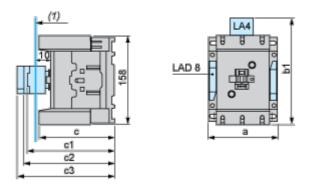
Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	A530c666-91dd-4119-8d61-f1c22a361ecb
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose you 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	End of Life Information	
Take-back	No	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	

Dimensions Drawings

Dimensions

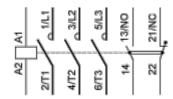


(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)
а		120
	with LA4 DA2	174
b1	with LA4 DF, DT	185
В	with LA4 DM, DL	188
	with LA4 DW	188
С	without cover or add-on blocks	132
	with cover, without add-on blocks	136
c1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
с3	with LAD T, R, S	168
CS	with LAD T, R, S and sealing cover	172

Connections and Schema

Wiring



Technical Illustration

Assembly's dimensions

