Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 150A, 100HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 208VAC 50/60Hz coil, open

LC1D150LE7

Product availability: Stock - Normally stocked in distribution facility

Price*: 696.00 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
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	208 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-3) 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	
Protective Cover	With	

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

[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 100 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 600 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
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	280…350 VA 60 Hz cos phi 0.9 (at 68 °F (20 °C)) 280…350 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 140 °F (60 °C)

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 1 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	solid without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness:
	solid without cable end
	Power circuit: connector 1 0.020.19 in ² (10120 mm ²) - cable stiffness: flexible without cable end
	Power circuit: connector 2 0.020.08 in ² (1050 mm ²) - cable stiffness: flexible
	without cable end
	Power circuit: connector 1 0.020.19 in ² (10120 mm ²) - cable stiffness: flexible
	with cable end
	Power circuit: connector 2 0.020.08 in ² (1050 mm ²) - cable stiffness: flexible with
	cable end
	Power circuit: connector 1 0.020.19 in ² (10120 mm ²) - cable stiffness: solid
	without cable end
	Power circuit: connector 2 0.020.08 in ² (1050 mm ²) - cable stiffness: solid
	without cable end
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat \emptyset 6 mm
0 0 1	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2
	Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm)
	Control circuit 10.62 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	Rail
meaning oupport	
	Plate

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
Product Certifications	GL GOST DNV LROS (Lloyds register of shipping) CSA BV RINA CCC UL UL UKCA CE
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	6.22 in (158 mm)	
Width	4.72 in (120 mm)	
Depth	5.35 in (136 mm)	
Net Weight	5.51 lb(US) (2.5 kg)	

Ordering and shipping details

Category	US10I1222359	
Discount Schedule	0 12	
Gtin	3389110726794	
Returnability	Yes	
Country Of Origin	US	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.48 in (19.0 cm)
Package 1 Width	6.89 in (17.5 cm)
Package 1 Length	8.27 in (21.0 cm)
Package 1 Weight	5.57 lb(US) (2.527 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

Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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	End of Life Information
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