Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 150A, 100HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VAC 50/60Hz coil, open

LC1D150B7

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-3 AC-4 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	24 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	
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 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 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 140 °F (60 °C)	

Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
flexible with cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - 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 in² (12.5 mm²) - cable stiffness: flexible without cable end
Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness:
solid without cable end Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
solid without cable end
Power circuit: connector 1 0.020.19 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 0.020.19 in² (10120 mm²) - 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 0.020.19 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
Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm
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
1 NO +1 NC
Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Rail Plate
CSA C22.2 No 14
EN 60947-4-1
EN 60947-5-1 IEC 60947-4-1
IEC 60947-5-1
UL 508
UL GOST
CCC
GL
BV RINA
CSA
LROS (Lloyds register of shipping) DNV
UKCA
CE
IP20 front face IEC 60529
THIEC 60068-2-30
IACS E10 exposure to damp heat
-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	US10l1222359
Discount Schedule	0112
Gtin	3389110475999
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.48 in (19.000 cm)
Package 1 Width	7.09 in (18.000 cm)
Package 1 Length	8.27 in (21.000 cm)
Package 1 Weight	5.41 lb(US) (2.454 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	174.73 lb(US) (79.258 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 >

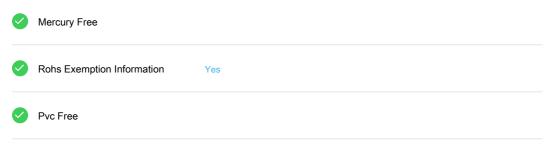
Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

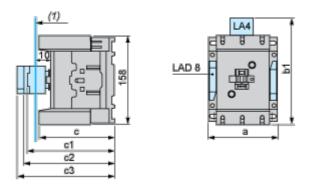


Certifications & Standards

REACh Declaration	
Compliant with Exemptions	
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
Product Environmental Profile	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
End of Life Information	
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	

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
БП	with LA4 DM, DL	188
	with LA4 DW	188
С	without cover or add-on blocks	132
	with cover, without add-on blocks	136
с1	with LAD N or C (2 or 4 contacts)	150
c2	with LA6 DK20	155
сЗ	with LAD T, R, S	168
63	with LAD T, R, S and sealing cover	172

Connections and Schema

Wiring

