Product data sheet

Specifications





IEC contactor, TeSys D, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 250VDC coil, open style

LC1D09UD

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 178.50 USD

Main

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-4 AC-1 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	250 V DC

Complementary

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Motor Power Kw	2.2 kW at 220230 V AC 50/60 Hz (AC-3)	
	4 kW at 380400 V AC 50/60 Hz (AC-3)	
	4 kW at 415440 V AC 50/60 Hz (AC-3)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)	
	2.2 kW at 400 V AC 50/60 Hz (AC-4)	
	2.2 kW at 220230 V AC 50/60 Hz (AC-3e)	
	4 kW at 380400 V AC 50/60 Hz (AC-3e)	
	4 kW at 415440 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	2 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	2 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	5 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air	25 A (at 140 °F (60 °C)) for power circuit	
Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit	

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

Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947
	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	105 A 104 °F (40 °C) - 10 s for power circuit
Current	210 A 104 °F (40 °C) - 1 s for power circuit
	30 A 104 °F (40 °C) - 10 min for power circuit
	61 A 104 °F (40 °C) - 1 min 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
	25 A gG at <= 690 V coordination type 1 for power circuit
	20 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power Dissipation Per Pole	1.56 W AC-1
	0.2 W AC-3
	0.2 W AC-3e
	0.2 W A0-96
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1
	Power circuit 600 V CSA
	Power circuit 600 V UL
	Signalling circuit 690 V IEC 60947-1
	Signalling circuit 600 V CSA
	Signalling circuit 600 V UL
Overvoltage Category	
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 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	30 Mcycles
Electrical Durability	0.6 Mcvcles 25 A AC-1 <= 440 V
Electrical Durability	0.6 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 9 A AC-3 <= 440 V
Electrical Durability	2 Mcycles 9 A AC-3 <= 440 V
	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V
Electrical Durability Control Circuit Type	2 Mcycles 9 A AC-3 <= 440 V
	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V
Control Circuit Type	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard
Control Circuit Type Coil Technology	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor
Control Circuit Type Coil Technology	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 ��C) drop-out DC
Control Circuit Type Coil Technology	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 � C) drop-out DC 0.71.25 Uc -40140 °F (-4060 °C) operational DC
Control Circuit Type Coil Technology Control Circuit Voltage Limits	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 ��C) drop-out DC 0.71.25 Uc -40158 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 � ℃) drop-out DC 0.71.25 Uc -40158 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 5.4 W 68 °F (20 °C)) 5.4 W 68 °F (20 °C)
Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 � C) drop-out DC 0.71.25 Uc -40158 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 5.4 W 68 °F (20 °C)) 5.4 W 68 °F (20 °C) 63 ±15 % ms closing
Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 � ℃) drop-out DC 0.71.25 Uc -40158 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 5.4 W 68 °F (20 °C)) 5.4 W 68 °F (20 °C)
Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 � C) drop-out DC 0.71.25 Uc -40158 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 5.4 W 68 °F (20 °C)) 5.4 W 68 °F (20 °C) 63 ±15 % ms closing
Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time	2 Mcycles 9 A AC-3 <= 440 V 2 Mcycles 9 A AC-3e <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc -40158 °F (-4070 ��C) drop-out DC 0.71.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC 5.4 W 68 °F (20 °C)) 5.4 W 68 °F (20 °C) 63 ±15 % ms closing 20 ±20 % ms opening

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Connections - Terminals	Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness:
	flexible without cable end
	Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:
	flexible with cable end Power circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
	flexible with cable end Power circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness:
	solid without cable end
	Power circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 1 0.000.01 in ² (14 mm ²) - cable stiffness: flexible with cable end
	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 0.000.01 in ² (14 mm ²) - cable stiffness:
	solid without cable end Control circuit: screw clamp terminals 2 0.000.01 in ² (14 mm ²) - cable stiffness:
	solid without cable end
Tightening Torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Power circuit 15.05 lbf.in (1.7 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	1.5 ms on energisation between NC and NO contact Rail

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	UL LROS (Lloyds register of shipping) RINA GOST BV GL DNV CSA CCC UKCA
Ip Degree Of Protection	IP20 front face IEC 60529
Protective Treatment	THIEC 60068-2-30
Climatic Withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D 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 open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Height	3.03 in (77 mm)
Width	1.77 in (45 mm)
Depth	3.74 in (95 mm)
Net Weight	1.06 lb(US) (0.48 kg)

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
Gtin	3389110353686
Returnability	No
Country Of Origin	ID

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.93 in (4.9 cm)
Package 1 Width	4.37 in (11.1 cm)
Package 1 Length	3.50 in (8.9 cm)
Package 1 Weight	12.84 oz (364.0 g)

Contractual warranty

Warranty

18 months

Sustainability Screen

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
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