

Product data sheet

Specifications



IEC contactor, TeSys Deca Green, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24/60 VAC/VDC coil, open

LC1D09BNE

Product availability: Stock - Normally stocked in distribution facility

Price*: 41.00 USD

Main

Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-1 AC-3 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	9 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] Control Circuit Voltage	24...60 V AC 50/60 Hz 24...60 V DC

Complementary

Motor Power Kw	2.2 kW at 220...230 V AC 50 Hz (AC-3) 4 kW at 380...400 V AC 50 Hz (AC-3) 4 kW at 415 V AC 50 Hz (AC-3) 4 kW at 440 V AC 50 Hz (AC-3) 5.5 kW at 500 V AC 50 Hz (AC-3) 5.5 kW at 660...690 V AC 50 Hz (AC-3) 2.2 kW at 220...230 V AC 50 Hz (AC-3e) 4 kW at 380...400 V AC 50 Hz (AC-3e) 4 kW at 415 V AC 50 Hz (AC-3e) 4 kW at 440 V AC 50 Hz (AC-3e) 5.5 kW at 500 V AC 50 Hz (AC-3e) 5.5 kW at 660...690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	0.33 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phase motors 2 hp at 230/240 V AC 60 Hz for 3 phase motors 5 hp at 460/480 V AC 60 Hz for 3 phase motors 7.5 hp at 575/600 V AC 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	10 A (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (60 °C)) for power circuit
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	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 30 A 104 °F (40 °C) - 10 min for power circuit 61 A 104 °F (40 °C) - 1 min for power circuit 105 A 104 °F (40 °C) - 10 s for power circuit 210 A 104 °F (40 °C) - 1 s for power 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
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
Overvoltage Category	III
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	15 Mcycles
Electrical Durability	2.4 Mcycles 8 A AC-3 <= 440 V 0.6 Mcycles 25 A AC-1 <= 440 V 2.4 Mcycles 8 A AC-3e <= 440 V
Control Circuit Type	AC/DC 50/60 Hz AC/DC electronic
Coil Technology	Built-in bidirectional peak limiting
Control Circuit Voltage Limits	<= 0.1 Uc -40...158 °F (-40...70 °C) drop-out AC/DC 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational DC 1...1.1 Uc 140...158 °F (60...70 °C) operational AC/DC
Inrush Power In Va	15 VA 50/60 Hz (at 68 °F (20 °C))
Inrush Power In W	14 W 68 °F (20 °C)
Hold-In Power Consumption In Va	0.9 VA 50/60 Hz (at 68 °F (20 °C))
Hold-In Power Consumption In W	0.6 W 68 °F (20 °C)
Heat Dissipation	0.6 W at 50/60 Hz
Operating Time	45...55 ms closing 20...90 ms opening
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Connections - Terminals	<p>Control circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 2 0.00...0.01 in² (1...4 mm²) - cable stiffness: solid</p> <p>Power circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 0.00...0.00 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 0.00...0.01 in² (1...4 mm²) - cable stiffness: solid</p> <p>Power circuit: screw clamp terminals 2 0.00...0.01 in² (1...4 mm²) - cable stiffness: solid</p>
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Tightening Torque	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2</p>
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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	25...400 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 Plate

Environment

Standards	<p>EN/IEC 60947-4-1</p> <p>EN/IEC 60947-5-1</p> <p>UL 60947-4-1</p> <p>CSA C22.2 No 60947-4-1</p> <p>IEC 60335-1</p>
Product Certifications	<p>CCC</p> <p>CSA</p> <p>EAC</p> <p>UL</p> <p>KC</p> <p>DNV-GL</p> <p>LROS (Lloyds register of shipping)</p> <p>UKCA</p>
Ip Degree Of Protection	IP20 front face IEC 60529
Climatic Withstand	<p>IACS E10 exposure to damp heat</p> <p>IEC 60947-1 Annex Q category D exposure to damp heat</p>
Permissible Ambient Air Temperature Around The Device	<p>-40...140 °F (-40...60 °C)</p> <p>140...158 °F (60...70 °C) with derating</p>
Operating Altitude	0...9842.52 ft (0...3000 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, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 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	3.39 in (86 mm)
Net Weight	0.81 lb(US) (0.368 kg)

Ordering and shipping details

Category	US10I1222356
Discount Schedule	0112
Gtin	3606480987632
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.20 in (5.600 cm)
Package 1 Width	3.78 in (9.600 cm)
Package 1 Length	4.72 in (12.000 cm)
Package 1 Weight	13.93 oz (395.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
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	13.83 lb(US) (6.275 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	240
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	23.62 in (60.000 cm)
Package 3 Length	31.50 in (80.000 cm)
Package 3 Weight	183.65 lb(US) (83.300 kg)

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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

Halogen Free Plastic Parts & Cables
Product

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](#)