

# Product datasheet

Specifications



## TeSys D contactor 3P 9A AC-3 up to 440V coil 24-60VAC/DC

LC1D09BNE

**Price: 1,292.05 ZAR**

### Main

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

### Complementary

<b>Motor Power Kw</b>	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)
<b>Motor Power Hp</b>	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 phases motors 2 hp at 230/240 V AC 60 Hz for 3 phases motors 5 hp at 460/480 V AC 60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 60 Hz for 3 phases motors
<b>Compatibility Code</b>	LC1D
<b>Pole Contact Composition</b>	3 NO
<b>Protective Cover</b>	With
<b>[Ith] Conventional Free Air Thermal Current</b>	10 A (at 60 °C) for signalling circuit 25 A (at 60 °C) for power circuit

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Irms Rated Making Capacity</b>	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
<b>Rated Breaking Capacity</b>	250 A at 440 V for power circuit conforming to IEC 60947
<b>[Icw] Rated Short-Time Withstand Current</b>	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit
<b>Associated Fuse Rating</b>	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
<b>Average Impedance</b>	2.5 mOhm - Ith 25 A 50 Hz for power circuit
<b>Power Dissipation Per Pole</b>	1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e
<b>[Ui] Rated Insulation Voltage</b>	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1
<b>Overvoltage Category</b>	III
<b>Pollution Degree</b>	3
<b>[Uimp] Rated Impulse Withstand Voltage</b>	6 kV conforming to IEC 60947
<b>Safety Reliability Level</b>	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
<b>Mechanical Durability</b>	15 Mcycles
<b>Electrical Durability</b>	2.4 Mcycles 8 A AC-3 at Ue <= 440 V 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2.4 Mcycles 8 A AC-3e at Ue <= 440 V
<b>Control Circuit Type</b>	AC/DC at 50/60 Hz AC/DC electronic
<b>Coil Technology</b>	Built-in bidirectional peak limiting
<b>Control Circuit Voltage Limits</b>	<= 0.1 Uc (-40...70 °C):drop-out AC/DC 0.85...1.1 Uc (-40...60 °C):operational AC 0.8...1.1 Uc (-40...60 °C):operational DC 1...1.1 Uc (60...70 °C):operational AC/DC
<b>Inrush Power In Va</b>	15 VA 50/60 Hz (at 20 °C)
<b>Inrush Power In W</b>	14 W (at 20 °C)
<b>Hold-In Power Consumption In Va</b>	0.9 VA 50/60 Hz (at 20 °C)
<b>Hold-In Power Consumption In W</b>	0.6 W at 20 °C
<b>Heat Dissipation</b>	0.6 W at 50/60 Hz
<b>Operating Time</b>	45...55 ms closing 20...90 ms opening
<b>Maximum Operating Rate</b>	3600 cyc/h 60 °C

<b>Connections - Terminals</b>	Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid
<b>Tightening Torque</b>	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2
<b>Auxiliary Contact Composition</b>	1 NO + 1 NC
<b>Auxiliary Contacts Type</b>	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
<b>Signalling Circuit Frequency</b>	25...400 Hz
<b>Minimum Switching Voltage</b>	17 V for signalling circuit
<b>Minimum Switching Current</b>	5 mA for signalling circuit
<b>Insulation Resistance</b>	> 10 MOhm for signalling circuit
<b>Non-Overlap Time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Mounting Support</b>	Rail Plate

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1
<b>Product Certifications</b>	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA
<b>Ip Degree Of Protection</b>	IP20 front face conforming to IEC 60529
<b>Climatic Withstand</b>	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
<b>Permissible Ambient Air Temperature Around The Device</b>	-40...60 °C 60...70 °C with derating
<b>Operating Altitude</b>	0...3000 m
<b>Fire Resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Flame Retardance</b>	V1 conforming to UL 94

<b>Mechanical Robustness</b>	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)
<b>Height</b>	77 mm
<b>Width</b>	45 mm
<b>Depth</b>	86 mm
<b>Net Weight</b>	0.368 kg

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	5.600 cm
<b>Package 1 Width</b>	9.600 cm
<b>Package 1 Length</b>	12.000 cm
<b>Package 1 Weight</b>	395.000 g
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	15
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	6.275 kg
<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	240
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	100.400 kg

## Contractual warranty

<b>Warranty</b>	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-CO<sub>2</sub> 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](#)