Product datasheet

Specification





TeSys Deca contactor, 3P(3NO),AC-3/AC-3e,<=440V 9A, 115V AC coil

LC1D09FE7

Price: 32,896.02 NGN

Main

| Range Of Product | TeSys Deca |
|--------------------------------|---|
| Product Or Component Type | Contactor |
| Device Short Name | LC1D |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-4 AC-1 AC-3 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 <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit |
| [Uc] Control Circuit Voltage | 115 V AC 50/60 Hz |

Complementary

| 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) |
|--|---|
| Motor Power Hp | 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 phases motors 2 hp at 230/240 V AC 50/60 Hz for 3 phases motors 5 hp at 460/480 V AC 50/60 Hz for 3 phases motors 7.5 hp at 575/600 V AC 50/60 Hz for 3 phases 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 Thermal Current | 25 A (at 60 °C) for power circuit 10 A (at 60 °C) for signalling 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 | 105 A 40 °C - 10 s for power circuit |
|--|---|
| Current | 210 A 40 °C - 1 s for power circuit |
| | 30 A 40 °C - 10 min for power circuit |
| | 61 A 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 |
| [Ui] Rated Insulation Voltage | Power circuit: 690 V conforming to IEC 60947-4-1 |
| | Power circuit: 600 V CSA certified |
| | Power circuit: 600 V UL certified |
| | Signalling circuit: 690 V conforming to IEC 60947-1 |
| | Signalling circuit: 600 V CSA certified |
| | Signalling circuit: 600 V UL certified |
| Overvoltage Category | III |
| Pollution Degree | 3 |
| [Uimp] Rated Impulse Withstand Voltage | 6 kV conforming to IEC 60947 |
| Safety Reliability Level | 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 |
| Mechanical Durability | 15 Mcycles |
| Electrical Durability | 0.6 Mcycles 25 A AC-1 at Ue <= 440 V |
| - | 2 Mcycles 9 A AC-3 at Ue <= 440 V |
| | 2 Mcycles 9 A AC-3e at Ue <= 440 V |
| Control Circuit Type | AC at 50/60 Hz standard |
| Coil Technology | Without built-in suppressor module |
| Control Circuit Voltage Limits | 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz |
| - | 0.81.1 Uc (-4060 °C):operational AC 50 Hz |
| | 0.851.1 Uc (-4060 °C):operational AC 60 Hz |
| | 11.1 Uc (6070 °C):operational AC 50/60 Hz |
| Inrush Power In Va | 70 VA 60 Hz cos phi 0.75 (at 20 °C) |
| | 70 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold In Power Consumption In Va | 7.5.VA 00.U= (0.0.4+00.90) |
| Hold-In Power Consumption In Va | 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 23 W at 50/60 Hz |
| Operating Time | 1222 ms closing |
| | 419 ms opening |
| Maximum Operating Rate | 3600 cyc/h 60 °C |
| | |

| Connections - Terminals | Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end | | |
|-------------------------------|---|--|--|
| | Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without | | |
| | cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable | | |
| | end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with | | |
| | cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable | | |
| | end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable | | |
| | end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without | | |
| | cable end | | |
| | Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end | | |
| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end | | |
| | Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end | | |
| | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without | | |
| | cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without | | |
| | cable end | | |
| Tightening Torque | 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 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 | | |
| Auxiliary Contact Composition | 1 NO + 1 NC | | |
| Auxiliary Contacts Type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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 contact1.5 ms on energisation between NC and NO contact | | |
| Mounting Support | Rail 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 | | |
| | IEC 60335-1 | | |
| Product Certifications | GOST | | |
| | RINA CSA | | |
| | BV | | |
| | LROS (Lloyds register of shipping) CCC | | |
| | GL | | |
| | UL | | |
| | DNV UKCA | | |
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 | | |
| Protective Treatment | TH conforming to IEC 60068-2-30 | | |
| Climatic Withstand | conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat | | |
| | | | |

| Permissible Ambient Air Temperature Around The Device | -4060 °C 6070 °C with derating | |
|--|---|--|
| Operating Altitude | tude 03000 m | |
| Fire Resistance | 850 °C conforming to 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 | 77 mm | |
| Width | 45 mm | |
| Depth | 86 mm | |
| Net Weight | 0.32 kg | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 5.000 cm |
| Package 1 Width | 9.200 cm |
| Package 1 Length | 11.300 cm |
| Package 1 Weight | 354.000 g |
| Unit Type Of Package 2 | S02 |
| Number Of Units In Package 2 | 20 |
| Package 2 Height | 15.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 7.398 kg |
| Unit Type Of Package 3 | P06 |
| Number Of Units In Package 3 | 320 |
| Package 3 Height | 75.000 cm |
| Package 3 Width | 60.000 cm |
| Package 3 Length | 80.000 cm |
| Package 3 Weight | 130.000 kg |

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

Well-being performance

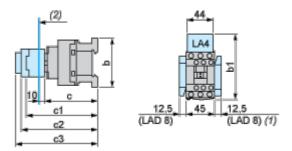
| ⊘ | Reach Free Of Svhc |
|----------|--------------------------------|
| ⊘ | Toxic Heavy Metal Free |
| ⊘ | Mercury Free |
| ⊘ | Rohs Exemption Information Yes |
| ⊘ | Pvc Free |

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|---|
| Eu Rohs Directive | Compliant EU RoHS Declaration |
| China Rohs Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |
| 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 |

Dimensions Drawings

Dimensions



- (1) Including LAD 4BB
- (2) Minimum electrical clearance

| LC1 | | D09D18 | D093D123 | D099D129 |
|------------|------------------------------------|--------------------|--------------------|----------------------|
| b | without add-on blocks | 77 | 99 | 80 |
| | with LAD 4BB | 94 | 107 | 95.5 |
| | with LA4 D●2 | 110 ⁽¹⁾ | 123 ⁽¹⁾ | _{111.5} (1) |
| b1 | with LA4 DF, DT | 119 ⁽¹⁾ | 132 ⁽¹⁾ | 120.5 ⁽¹⁾ |
| | with LA4 DW, DL | ₁₂₆ (1) | 139 ⁽¹⁾ | _{127.5} (1) |
| С | without cover or add-on blocks | 84 | 84 | 84 |
| | with cover, without add-on blocks | 86 | 86 | 86 |
| с1 | with LAD N or C (2 or 4 contacts) | 117 | 117 | 117 |
| c2 | with LA6 DK10, LAD 6K10 | 129 | 129 | 129 |
| c 3 | with LAD T, R, S | 137 | 137 | 137 |
| | with LAD T, R, S and sealing cover | 141 | 141 | 141 |
| (1) | Including LAD 4BB. | | | |

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LC1D09FE7

Connections and Schema

Wiring

