

Product datasheet

Specifications



TeSys D - star delta starter - 3 x 3P (3 NO) - 9 A - 400 V AC coil

LC3D090AV7

⚠ Discontinued on: 10 Oct 2020

EAN Code: 3389110545623

⚠ Discontinued

Main

| | |
|--|---|
| Range | TeSys |
| Product name | TeSys D |
| Product or component type | Star delta starter |
| Device short name | LC3D |
| Contactors application | Motor control |
| Utilisation category | AC-3 |
| Device presentation | Pre-wired |
| Poles description | 3 x 3P |
| power pole contact composition | 3 x 3 NO |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25...400 Hz |
| [Ie] rated operational current | 9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |
| Motor power kW | 4 kW at 220/230 V AC 50/60 Hz 7.5 kW at 380/400 V AC 50/60 Hz 7.5 kW at 415 V AC 50/60 Hz 7.5 kW at 440 V AC 50/60 Hz |
| Control circuit type | AC at 50/60 Hz |
| [Uc] control circuit voltage | 400 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NC for KM1 star contactor |
| [Uimp] rated impulse withstand voltage | 6 kV conforming to IEC 60947 |
| Oversvoltage category | III |
| [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 |
| Electrical durability | 2 Mcycles 9 A AC-3 at Ue <= 440 V |
| safety cover | Protective cover |
| Interlocking type | Mechanical |
| Mounting support | Rail |
| Standards | EN 60947-5-1 UL 508 EN 60947-4-1 IEC 60947-5-1 IEC 60947-4-1 CSA C22.2 No 14 |

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| Product certifications | CSA CCC UL LROS (Lloyds register of shipping) GL GOST RINA DNV BV |
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Complementary

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| Connections - terminals | Power circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - 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 |
| Mechanical durability | 15 Mcycles |
| Maximum operating rate | 30 cyc/h 60 °C |
| Starting time | 30 s |
| Coil technology | Without built-in suppressor module |
| Control circuit voltage limits | Drop-out: 0.3...0.6 Uc at 50/60 Hz (at <60 °C) Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C) Operational: 0.85...1.1 Uc at 60 Hz (at <60 °C) |
| 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 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 2...3 W at 50/60 Hz |
| Auxiliary contacts type | Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC Mirror contact conforming to IEC 60947-4-1 3 x 1 NC |
| Signalling circuit frequency | 25...400 Hz |
| Minimum switching current | 5 mA for signalling circuit |
| minimum switching voltage | 17 V 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 |
| Width | 143 mm |
| Height | 124 mm |
| Depth | 143 mm |

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| Net weight | 1.53 kg |
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Environment

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| Insulation resistance | > 10 MOhm for signalling circuit |
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| IP degree of protection | IP20 front face conforming to IEC 60529 |
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| Climatic withstand | conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D |
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| Protective treatment | TH conforming to IEC 60068-2-30 |
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| Pollution degree | 3 |
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| Ambient air temperature for storage | -60...80 °C |
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| Ambient air temperature for operation | -40...70 °C at U _c |
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| Operating altitude | 3000 m without derating |
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| Fire resistance | 850 °C conforming to IEC 60695-2-1 |
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| Flame retardance | V1 conforming to UL 94 |
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| 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 |
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Packing Units

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| Unit Type of Package 1 | PCE |
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| Number of Units in Package 1 | 1 |
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| Package 1 Height | 18 cm |
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| Package 1 Width | 16 cm |
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| Package 1 Length | 23.5 cm |
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| Package 1 Weight | 1.53 kg |
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

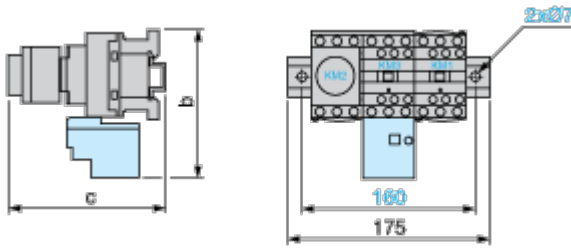
WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

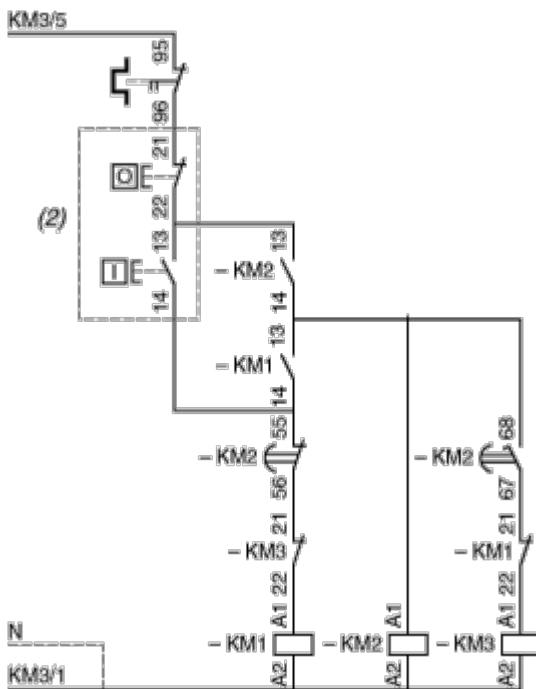
Dimensions



| LC3 | | D09A to D180A | D320A |
|----------|------------------------------|---------------|-------|
| b | | 153 | 137 |
| c | with LAD S | 139 | 145 |
| | with LAD S and sealing cover | 143 | 149 |

Connections and Schema

Wiring



- (1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).
- (2) Remote control.

NOTE: LC3 D09A to D18A: Mechanical interlock between KM3 and KM1.

