

# Product data sheet

Specifications



Star delta starter, TeSys Deca,  
3x3P(3NO), 32A, 110VAC 50/60Hz  
coil, screw clamp terminal

LC3D32AF7

## Main

|  |   |
|--|---|
| Range                                  | TeSys<br>TeSys Deca   |
| Product Name                           | TeSys Deca  |
| Product Or Component Type              | Star delta starter  |
| Device Short Name                      | LC3D  |
| Contactor 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         | 32 A (at <60 °C) at <= 440 V AC AC-3 for power circuit  |
| Motor Power Kw                         | 15 kW at 220/230 V AC 50/60 Hz<br>25 kW at 380/400 V AC 50/60 Hz<br>30 kW at 415 V AC 50/60 Hz<br>30 kW at 440 V AC 50/60 Hz  |
| Control Circuit Type                   | AC at 50/60 Hz  |
| [Uc] Control Circuit Voltage           | 110 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  |
| Overvoltage Category                   | III   |
| [Ui] Rated Insulation Voltage          | Power circuit: 690 V conforming to IEC 60947-4-1<br>Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Signalling circuit: 690 V conforming to IEC 60947-1<br>Signalling circuit: 600 V CSA certified<br>Signalling circuit: 600 V UL certified |
| Electrical Durability                  | 1.65 Mcycles 32 A AC-3 at Ue <= 440 V   |
| Safety Cover                           | Protective cover  |
| Interlocking Type                      | Mechanical  |
| Mounting Support                       | Plate   |
| Standards                              | EN 60947-5-1<br>EN 60947-4-1<br>UL 508<br>CSA C22.2 No 14<br>IEC 60947-4-1<br>IEC 60947-5-1<br>IEC 60335-1  |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                        |   |
|------------------------|---|
| Product Certifications | RINA<br>GL<br>GOST<br>BV<br>DNV<br>CCC<br>CSA<br>LROS (Lloyds register of shipping)<br>UL |
|------------------------|---|

## Complementary

|                                 |   |
|---------------------------------|---|
| Connections - Terminals         | Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 2.5...10 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 2.5...10 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 1...10 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1.5...6 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 1.5...10 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 2.5...10 mm² - cable stiffness: solid without cable end |
| Tightening Torque               | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm<br>Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2<br>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv 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)<br>Operational: 0.8...1.1 Uc at 50 Hz (at <60 °C)<br>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)<br>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)<br>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<br>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<br>1.5 ms on energisation between NC and NO contact   |
| Width                           | 166 mm  |

|            |         |
|------------|---------|
| Height     | 124 mm  |
| Depth      | 149 mm  |
| Net Weight | 2.03 kg |

## Environment

|                                       |   |
|---------------------------------------|---|
| Insulation Resistance                 | > 10 MOhm for signalling circuit  |
| Ip Degree Of Protection               | IP20 front face conforming to IEC 60529   |
| Climatic Withstand                    | conforming to IACS E10<br>conforming to IEC 60947-1 Annex Q category D  |
| Protective Treatment                  | TH conforming to IEC 60068-2-30   |
| Pollution Degree                      | 3   |
| Ambient Air Temperature For Storage   | -60...80 °C   |
| Ambient Air Temperature For Operation | -40...70 °C at Uc   |
| Operating Altitude                    | 3000 m without derating   |
| Fire Resistance                       | 850 °C conforming to IEC 60695-2-1  |
| Flame Retardance                      | V1 conforming to UL 94  |
| Mechanical Robustness                 | Vibrations contactor open: 2 Gn, 5...300 Hz<br>Vibrations contactor closed: 4 Gn, 5...300 Hz<br>Shocks contactor closed: 15 Gn for 11 ms<br>Shocks contactor open: 8 Gn for 11 ms |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 18.0 cm |
| Package 1 Width              | 16.0 cm |
| Package 1 Length             | 23.5 cm |
| Package 1 Weight             | 1.73 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

## 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

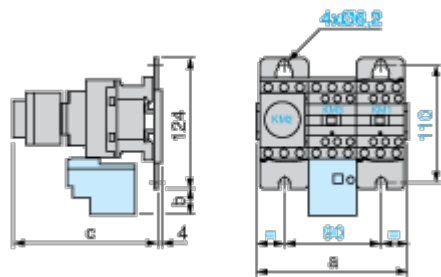
|   |                            |     |
|---|----------------------------|-----|
| ✓ | Reach Free Of Svhc         |     |
| ✓ | Toxic Heavy Metal Free     |     |
| ✓ | Mercury Free               |     |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free                   |     |

## Certifications & Standards

|                           |   |
|---------------------------|---|
| Reach Regulation          | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive         | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a><br>Pro-active China RoHS declaration (out of China RoHS legal scope)   |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| Circularity Profile       | <a href="#">End of Life Information</a>   |
| 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 <a href="#">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

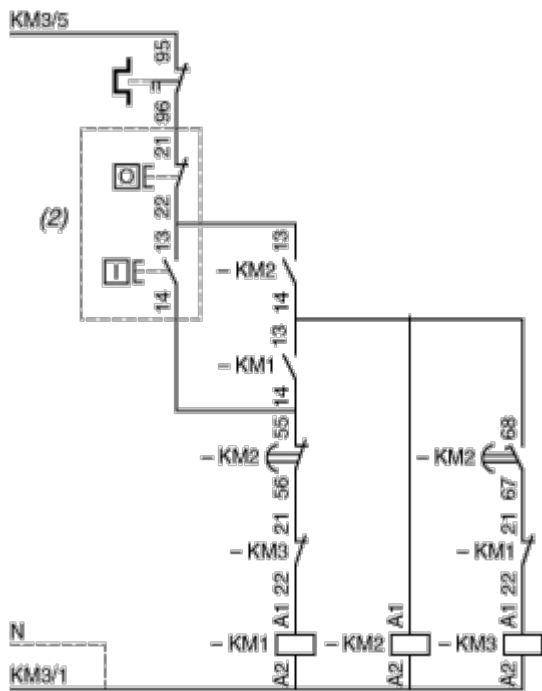
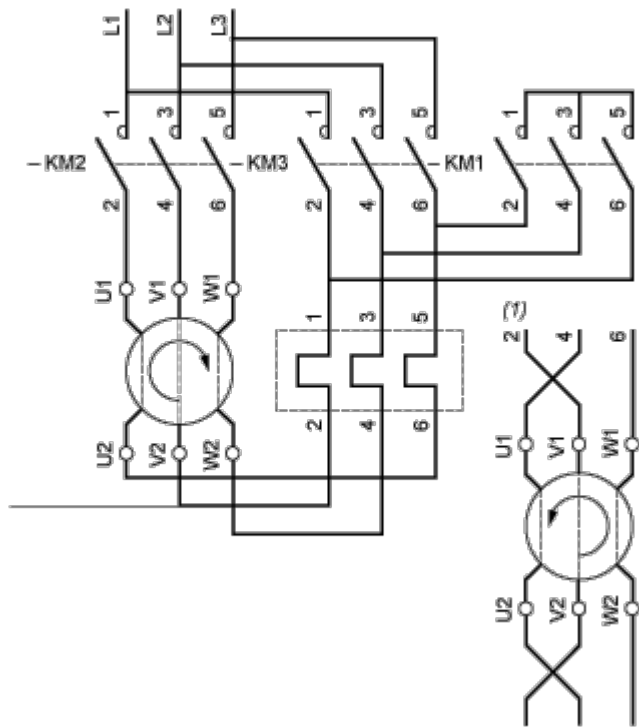
Dimensions



| LC3 |                              | D09A | D12A | D18A | D32A |
|-----|------------------------------|------|------|------|------|
| a   |                              | 143  | 143  | 144  | 165  |
| b   |                              | 26.5 | 26.5 | 26.5 | 32.5 |
| c   | with LAD S                   | 139  | 139  | 139  | 145  |
|     | with LAD S and sealing cover | 143  | 143  | 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.

