

## Product data sheet

### Characteristics

# LC3D32AF7

TeSys; TeSys Deca, Star delta starter, 3 x 3P  
(3 NO), 32A, 110VAC 50/60Hz coil



### 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  |
| Overtoltage 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  |
| Product certifications                 | RINA[RETURN]GL[RETURN]GOST[RETURN]BV[RETURN]DNV[RETURN]<br>(Lloyds register of shipping)[RETURN]UL  |

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## Complementary

|                                 |  |
|---------------------------------|--|
| Connections - terminals         | <p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 1...2.5 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 1...4 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Control circuit: screw clamp terminals 2 1...4 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 1 2.5...10 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 2 2.5...10 mm<sup>2</sup> - cable stiffness: flexible without cable end</p> <p>Power circuit: screw clamp terminals 1 1...10 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 2 1.5...6 mm<sup>2</sup> - cable stiffness: flexible with cable end</p> <p>Power circuit: screw clamp terminals 1 1.5...10 mm<sup>2</sup> - cable stiffness: solid without cable end</p> <p>Power circuit: screw clamp terminals 2 2.5...10 mm<sup>2</sup> - cable stiffness: solid without cable end</p> |
| Tightening torque               | <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</p> <p>Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2</p> <p>Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2</p> <p>Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2</p>  |
| 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  | <p>Drop-out: 0.3...0.6 Uc at 50/60 Hz (at &lt;60 °C)</p> <p>Operational: 0.8...1.1 Uc at 50 Hz (at &lt;60 °C)</p> <p>Operational: 0.85...1.1 Uc at 60 Hz (at &lt;60 °C)</p>  |
| Inrush power in VA              | <p>70 VA 60 Hz cos phi 0.75 (at 20 °C)</p> <p>70 VA 50 Hz cos phi 0.75 (at 20 °C)</p>  |
| Hold-in power consumption in VA | <p>7.5 VA 60 Hz cos phi 0.3 (at 20 °C)</p> <p>7 VA 50 Hz cos phi 0.3 (at 20 °C)</p>  |
| Heat dissipation                | 2...3 W at 50/60 Hz  |
| Auxiliary contacts type         | <p>Mechanically linked conforming to IEC 60947-5-1 3 x 1 NO + 1 NC</p> <p>Mirror contact conforming to IEC 60947-4-1 3 x 1 NC</p>  |
| 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                | <p>1.5 Ms on de-energisation between NC and NO contact</p> <p>1.5 ms on energisation between NC and NO contact</p>   |
| 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                    | <p>Conforming to IACS E10</p> <p>Conforming to IEC 60947-1 Annex Q category D</p> |
| 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 |

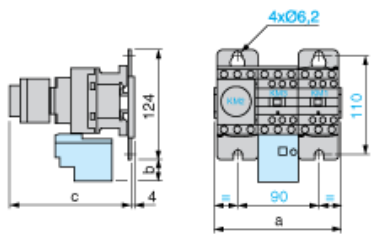
## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| REACH Regulation           | <a href="#"> REACH Declaration</a>               |
| REACH free of SVHC         | Yes   |
| EU RoHS Directive          | Compliant <a href="#"> EU RoHS Declaration</a>   |
| Toxic heavy metal free     | Yes   |
| Mercury free               | Yes   |
| China RoHS Regulation      | <a href="#"> China RoHS Declaration</a>          |
| RoHS exemption information | <a href="#"> Yes</a>                            |
| Environmental Disclosure   | <a href="#"> Product Environmental Profile</a> |
| Circularity Profile        | <a href="#"> End Of Life Information</a>       |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins       |
| PVC free                   | Yes   |

## Contractual warranty

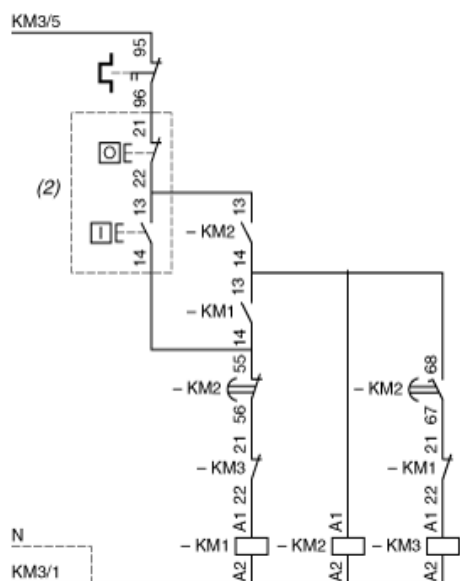
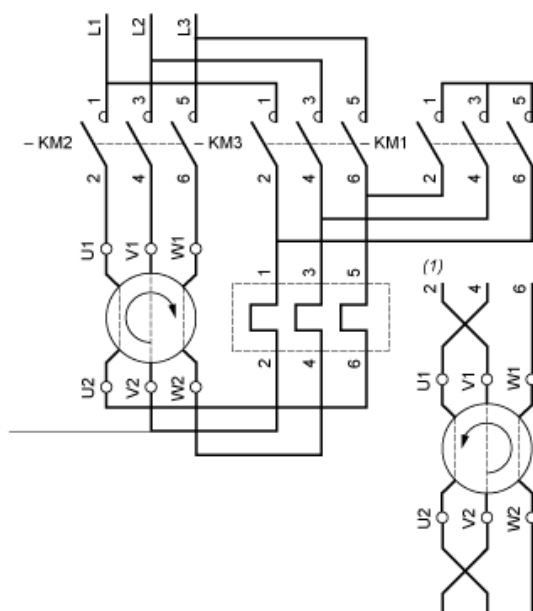
|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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  |      |

## 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.