

Product data sheet

Specifications



TeSys D - star delta starter - 3 x 3P (3 NO) - 115 A - 380 V AC coil

LC3D115Q7

ⓘ Discontinued

Main

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|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range | TeSys |
| Product Name | TeSys D |
| 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 | 115 A (at <60 °C) at <= 440 V AC AC-3 for power circuit |
| Motor Power Kw | 110 kW at 380/400 V AC 50/60 Hz 110 kW at 415 V AC 50/60 Hz 110 kW at 440 V AC 50/60 Hz 63 kW at 220/230 V AC 50/60 Hz |
| Control Circuit Type | AC at 50/60 Hz |
| [Uc] Control Circuit Voltage | 380 V AC 50/60 Hz |
| Auxiliary Contact Composition | 1 NC for KM2 line contactor 1 NO for KM3 delta contactor |
| [Uimp] Rated Impulse Withstand Voltage | 8 kV conforming to IEC 60947 |
| Overvoltage Category | III |
| [Ui] Rated Insulation Voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 1000 V conforming to IEC 60947-1 |
| Electrical Durability | 0.95 Mcycles 115 A AC-3 at Ue <= 440 V |
| Mounting Support | Plate |
| Standards | IEC 60947-4-1 IEC 60947-5-1 UL 508 EN 60947-4-1 CSA C22.2 No 14 EN 60947-5-1 |

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

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

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| Connections - Terminals | Power circuit: connector 1 10...120 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 10...50 mm² - cable stiffness: flexible without cable end Power circuit: connector 1 10...120 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 10...50 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 10...120 mm² - cable stiffness: solid without cable end Power circuit: connector 2 10...50 mm² - cable stiffness: solid without cable end Control circuit: connector 1 1...2.5 mm² - cable stiffness: flexible without cable end Control circuit: connector 2 1...2.5 mm² - cable stiffness: flexible without cable end Control circuit: connector 1 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: connector 2 1...2.5 mm² - cable stiffness: flexible with cable end Control circuit: connector 1 1...2.5 mm² - cable stiffness: solid without cable end Control circuit: connector 2 1...2.5 mm² - cable stiffness: solid without cable end |
| Tightening Torque | Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6...8 mm Control circuit: 1.2 N.m - on connector - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on connector - with screwdriver Philips No 2 |
| Mechanical Durability | 8 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...0.5 Uc at 50/60 Hz (at <55 °C) Operational: 0.8...1.15 Uc at 50/60 Hz (at <55 °C) |
| Inrush Power In Va | 280...350 VA 60 Hz cos phi 0.8 (at 20 °C) 280...350 VA 50 Hz cos phi 0.8 (at 20 °C) |
| Hold-In Power Consumption In Va | 2...18 VA 60 Hz cos phi 0.3 (at 20 °C) 2...18 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 3...8 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 | 450 mm |
| Height | 555 mm |
| Depth | 205 mm |
| Net Weight | 11.8 kg |

Environment

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| Insulation Resistance | > 10 MOhm for signalling circuit |
| Ip Degree Of Protection | IP2X front face conforming to IEC 60529 |
| Protective Treatment | TH conforming to IEC 60068-2-30 |
| Pollution Degree | 3 |

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|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms |

Contractual warranty

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| Warranty | 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-CO₂ 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 >](#)

Well-being performance

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| ✓ | Reach Free Of Svhc | |
| ✓ | Toxic Heavy Metal Free | |
| ✓ | Mercury Free | |
| ✓ | Rohs Exemption Information | Yes |
| ✓ | Pvc Free | |
| | | |
| Eu Rohs Directive | | Compliant EU RoHS Declaration |
| | | |
| China Rohs Regulation | | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) |