

Star delta starter, TeSys Deca, 3x3P(3NO), 80A, 24V AC coil, screw clamp terminal

LC3D80B7A64

Main

| wain | | |
|--|--|--|
| Range | TeSys | |
| 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 Pre-wired | |
| Poles Description | 3 x 3P | |
| Power Pole Contact Composition | 3 x 3 NO | |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 25400 Hz | |
| [le] Rated Operational Current | 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit | |
| Motor Power Kw | 37 kW at 220/230 V AC 50/60 Hz 75 kW at 380/400 V AC 50/60 Hz 75 kW at 415 V AC 50/60 Hz 75 kW at 440 V AC 50/60 Hz | |
| Control Circuit Type | AC at 50/60 Hz | |
| [Uc] Control Circuit Voltage | 24 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 | 10 Mcycles 80 A AC-3 at Ue <= 440 V | |
| Interlocking Type | Mechanical | |
| Mounting Support | Plate | |
| Standards | CSA C22.2 No 14 UL 508 EN 60947-5-1 IEC 60947-4-1 EN 60947-4-1 IEC 60947-5-1 | |

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

Complementary

| Connections - Terminals | Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end |
|---------------------------------|---|
| | Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without |
| | 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 Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: flexible without |
| | cable end Power circuit: screw clamp terminals 2 425 mm² - cable stiffness: flexible without |
| | cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: flexible with |
| | cable end Power circuit: screw clamp terminals 2 416 mm² - cable stiffness: flexible with cable end |
| | Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: solid without cable end |
| | Power circuit: screw clamp terminals 2 425 mm² - cable stiffness: solid without cable end |
| | Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end |
| Tightening Torque | Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on screw clamp terminals - with screwdriver flat Ø 68 mm |
| Mechanical Durability | 4 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: 0.30.6 Uc at 50/60 Hz (at <55 °C) Operational: 0.81.1 Uc at 50 Hz (at <55 °C) Operational: 0.851.1 Uc at 60 Hz (at <55 °C) |
| Inrush Power In Va | 140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-In Power Consumption In Va | 13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat Dissipation | 45 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 | 25400 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 | 311 mm |
| Height | 143 mm |
| | |

Net Weight 5.4 kg

Environment

| Insulation Resistance | > 10 MOhm for signalling circuit | |
|---------------------------------------|---|--|
| Ip Degree Of Protection | IP20 front face conforming to IEC 60529 | |
| Protective Treatment | TH conforming to IEC 60068-2-30 | |
| Pollution Degree | e 3 | |
| Ambient Air Temperature For Storage | ture For -6080 °C | |
| Ambient Air Temperature For Operation | -4060 °C 6070 °C with derating | |
| Operating Altitude | 3000 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 Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5300 Hz Shocks contactor closed: 10 Gn for 11 ms | |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------|---------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 27.0 cm |
| Package 1 Width | 25.5 cm |
| Package 1 Length | 35.5 cm |
| Package 1 Weight | 6.7 kg |

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass 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 >





Transparency RoHS/REACh

Well-being performance

| Ø | Reach Free Of Svhc | |
|----------|----------------------------|-----|
| Ø | 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 | No need of specific recycling operations Circularity Profile |