# Product datasheet

Specifications

## Star delta starter, TeSys Deca, 3x3P(3NO), 80A, 240V AC coil, screw clamp terminal

LC3D80U7A64

Discontinued on: 16 Sept 2025

Discontinued

## Main

| | |
|---|---|
| **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 |
| **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** | 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<br>75 kW at 380/400 V AC 50/60 Hz<br>75 kW at 415 V AC 50/60 Hz<br>75 kW at 440 V AC 50/60 Hz |
| **Control circuit type** | AC at 50/60 Hz |
| **[Uc] control circuit voltage** | 240 V AC 50/60 Hz |
| **Auxiliary contact composition** | 1 NC for KM2 line contactor<br>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<br>Power circuit: 600 V UL certified<br>Signalling circuit: 600 V CSA certified<br>Signalling circuit: 600 V UL certified<br>Power circuit: 1000 V conforming to IEC 60947-4-1<br>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** | UL 508<br>IEC 60947-5-1<br>EN 60947-4-1<br>EN 60947-5-1<br>CSA C22.2 No 14<br>IEC 60947-4-1 |

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

## Complementary

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|---|---|
| **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 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 4…50 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 2 4…25 mm² - cable stiffness: flexible without cable end<br>Power circuit: screw clamp terminals 1 4…50 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 4…16 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 4…50 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 4…25 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 1 1…2.5 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<br>Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2<br>Power circuit: 12 N.m - on screw clamp terminals - with screwdriver flat Ø 6...8 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: 0.3...0.6 Uc at 50/60 Hz (at <55 °C)<br>Operational: 0.8...1.1 Uc at 50 Hz (at <55 °C)<br>Operational: 0.85...1.1 Uc at 60 Hz (at <55 °C) |
| **Inrush power in VA** | 140 VA 60 Hz cos phi 0.75 (at 20 °C)<br>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)<br>15 VA 50 Hz cos phi 0.3 (at 20 °C) |
| **Heat dissipation** | 4…5 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** | 311 mm |
| **Height** | 143 mm |
| **Depth** | 183 mm |

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|---|---|
| **Net weight** | 5.4 kg |

## Environment

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|---|---|
| **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** | 3 |
| **Ambient air temperature for storage** | -60…80 °C |
| **Ambient air temperature for operation** | -40…60 °C<br>60…70 °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, 5...300 Hz<br>Shocks contactor open: 8 Gn for 11 ms<br>Vibrations contactor closed: 3 Gn, 5...300 Hz<br>Shocks contactor closed: 10 Gn for 11 ms |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 20.5 cm |
| **Package 1 Width** | 25.5 cm |
| **Package 1 Length** | 36.0 cm |
| **Package 1 Weight** | 5.91 kg |

## Logistical informations

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|---|---|
| **Country of origin** | FR |

## Contractual warranty

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|---|---|
| **Warranty (in months)** | 18 |

## 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 >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **293 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **36 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0.7 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **1 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **243 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **13 kg CO2 eq.** |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| EU RoHS Directive | **Compliant** |
| REACh Regulation | **Free of Substances of Very High Concern above the threshold** |
| PVC free | **Yes** |

## Use Longer

### Lifetime extension

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|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

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|---|---|
| Recyclability potential, in % | **76** |
| End of life manual availability | **No need of specific recycling operations** |
| Take-back | **No** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |