# Product datasheet

Specifications

Green Premium™

## Reversing Contactor, TeSys Deca, 4P(4NO), AC-1 0...440V, 32A, 240V AC 50/60Hz coil, screw clamp terminals

LC2DT32U7

## Main

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|---|---|
| **Range** | TeSys<br>TeSys Deca |
| **Product Name** | TeSys Deca<br>TeSys Deca |
| **Product Or Component Type** | Changeover contactor |
| **Device Short Name** | LC2D |
| **Contactor Application** | Resistive load |
| **Utilisation Category** | AC-1<br>AC-3<br>AC-3e<br>AC-4 |
| **Device Presentation** | Preassembled with reversing power busbar |
| **Poles Description** | 4P |
| **Power Pole Contact Composition** | 4 NO |
| **[Ue] Rated Operational Voltage** | Power circuit: <= 690 V AC 25...400 Hz<br>Power circuit: <= 300 V DC |
| **[Ie] Rated Operational Current** | 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit |
| **Control Circuit Type** | AC at 50/60 Hz |
| **[Uc] Control Circuit Voltage** | 240 V AC 50/60 Hz |
| **Auxiliary Contact Composition** | 1 NO + 1 NC |
| **[Uimp] Rated Impulse Withstand Voltage** | 6 kV conforming to IEC 60947 |
| **Overvoltage Category** | III |
| **[Ith] Conventional Free Air Thermal Current** | 32 A (at 60 °C) for power circuit<br>10 A (at 60 °C) for signalling circuit |
| **Irms Rated Making Capacity** | 140 A AC for signalling circuit conforming to IEC 60947-5-1<br>250 A DC for signalling circuit conforming to IEC 60947-5-1<br>300 A at 440 V for power circuit conforming to IEC 60947 |
| **Rated Breaking Capacity** | 300 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] Rated Short-Time Withstand Current** | 40 A 40 °C - 10 min for power circuit<br>84 A 40 °C - 1 min for power circuit<br>145 A 40 °C - 10 s for power circuit<br>240 A 40 °C - 1 s for power circuit<br>100 A - 1 s for signalling circuit<br>120 A - 500 ms for signalling circuit<br>140 A - 100 ms for signalling circuit |
| **Associated Fuse Rating** | 10 A gG for signalling circuit conforming to IEC 60947-5-1<br>50 A gG at <= 690 V coordination type 1 for power circuit<br>35 A gG at <= 690 V coordination type 2 for power circuit |
| **Average Impedance** | 2.5 mOhm - Ith 32 A 50 Hz for power circuit |

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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| **[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 Mcycles 32 A AC-1 at Ue <= 440 V |
| **Power Dissipation Per Pole** | 2.5 W AC-1 |
| **Front Cover** | With |
| **Interlocking Type** | Mechanical |
| **Mounting Support** | Rail<br>Plate |
| **Standards** | CSA C22.2 No 14<br>EN 60947-4-1<br>EN 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-5-1<br>UL 508<br>IEC 60335-1 |
| **Product Certifications** | BV<br>CCC<br>CSA<br>DNV<br>GL<br>RINA<br>UL<br>EAC<br>UKCA |
| **Connections - Terminals** | Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid without cable end<br>Power circuit: connector 1 cable(s) 2.5…10 mm²flexible without cable end<br>Power circuit: connector 2 cable(s) 2.5…10 mm²flexible without cable end<br>Power circuit: connector 1 cable(s) 2.5…10 mm²flexible with cable end<br>Power circuit: connector 2 cable(s) 2.5…10 mm²flexible with cable end<br>Power circuit: connector 1 cable(s) 2.5…16 mm²solid without cable end<br>Power circuit: connector 2 cable(s) 2.5…16 mm²solid 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: 1.7 N.m - on connector - with screwdriver flat Ø 6 mm<br>Power circuit: 1.7 N.m - on connector - 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 |
| **Operating Time** | 12...22 ms closing<br>4...19 ms opening |
| **Safety Reliability Level** | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| **Mechanical Durability** | 15 Mcycles |
| **Maximum Operating Rate** | 3600 cyc/h 60 °C |

## Complementary

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| **Coil Technology** | Without built-in suppressor module |
| **Control Circuit Voltage Limits** | 0.3...0.6 Uc (-40…70 °C):drop-out AC 50/60 Hz<br>0.8...1.1 Uc (-40…55 °C):operational AC 50 Hz<br>0.85...1.1 Uc (-40…55 °C):operational AC 60 Hz<br>1...1.1 Uc (55…70 °C):operational AC 50/60 Hz |
| **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) |

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| **Hold-In Power Consumption In Va** | 7.5 VA (at 20 °C) cos phi 0.3 60 Hz<br>7 VA (at 20 °C) cos phi 0.3 50 Hz |
| **Heat Dissipation** | 2…3 W at 50/60 Hz |
| **Auxiliary Contacts Type** | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1<br>type mirror contact 1 NC conforming to IEC 60947-4-1 |
| **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 |
| **Insulation Resistance** | > 10 MOhm for signalling circuit |

# Environment

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| **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 Operation** | -40…60 °C<br>60…70 °C with derating |
| **Ambient Air Temperature For Storage** | -60…80 °C |
| **Operating Altitude** | 0...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>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 |
| **Height** | 91 mm |
| **Width** | 90 mm |
| **Depth** | 98 mm |
| **Net Weight** | 0.85 kg |

# Packing Units

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| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 9.08 cm |
| **Package 1 Width** | 9.0 cm |
| **Package 1 Length** | 9.95 cm |
| **Package 1 Weight** | 870.0 g |

# Contractual warranty

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| **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-$CO_2$ 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

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

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>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** | End of Life Information |