# Product datasheet

Specifications

## TeSys D changeover contactor - 4P(4 NO) - AC-1 - <= 440 V 125 A - 120 V AC coil

LC2D80004G7

Discontinued on: 1 Nov 2020

Discontinued

**EAN Code: 3389110355949**

## Main

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|---|---|
| **Range** | TeSys |
| **Product name** | 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 prewired power connections |
| **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** | 125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit<br>80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit<br>80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit<br>55 A (at <60 °C) at <= 400 V AC AC-4 for power circuit |
| **Control circuit type** | AC at 50/60 Hz |
| **[Uc] control circuit voltage** | 120 V AC 50/60 Hz |
| **[Uimp] rated impulse withstand voltage** | 8 kV conforming to IEC 60947 |
| **Overvoltage category** | III |
| **[Ith] conventional free air thermal current** | 125 A (at 60 °C) for power circuit |
| **Irms rated making capacity** | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| **Rated breaking capacity** | 1100 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] rated short-time withstand current** | 135 A 40 °C - 10 min for power circuit<br>320 A 40 °C - 1 min for power circuit<br>640 A 40 °C - 10 s for power circuit<br>990 A 40 °C - 1 s for power circuit |
| **Associated fuse rating** | 200 A gG at <= 690 V coordination type 1 for power circuit<br>160 A gG at <= 690 V coordination type 2 for power circuit |
| **Average impedance** | 0.8 mOhm - Ith 125 A 50 Hz for power circuit |
| **[Ui] rated insulation voltage** | Power circuit: 600 V CSA certified<br>Power circuit: 600 V UL certified<br>Power circuit: 1000 V conforming to IEC 60947-4-1 |
| **Electrical durability** | 0.8 Mcycles 125 A AC-1 at Ue <= 440 V |

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| **Power dissipation per pole** | 12.5 W AC-1 |
| **Front cover** | Without |
| **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 |
| **Product certifications** | GOST<br>BV<br>UL<br>CCC<br>CSA<br>GL<br>LROS (Lloyds register of shipping)<br>DNV<br>RINA |
| **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 2 cable(s) 1…2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid<br>Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid<br>Control circuit: screw clamp terminals 1 cable(s) 1…2.5 mm²flexible with cable end<br>Power circuit: connector 1 cable(s) 4…50 mm²flexible without cable end<br>Power circuit: connector 2 cable(s) 4…25 mm²flexible without cable end<br>Power circuit: connector 1 cable(s) 4…50 mm²flexible with cable end<br>Power circuit: connector 2 cable(s) 4…16 mm²flexible with cable end<br>Power circuit: connector 1 cable(s) 4…50 mm²solid<br>Power circuit: connector 2 cable(s) 4…25 mm²solid |
| **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 connector - with screwdriver flat Ø 6 to Ø 8 mm<br>Power circuit: 12 N.m - on connector hexagonal screw head 4 mm |
| **Operating time** | 20...35 ms closing<br>6...20 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** | 4 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** | 245 VA 60 Hz cos phi 0.75 (at 20 °C)<br>245 VA 50 Hz cos phi 0.75 (at 20 °C) |
| **Hold-in power consumption in VA** | 26 VA 60 Hz cos phi 0.3 (at 20 °C)<br>26 VA 50 Hz cos phi 0.3 (at 20 °C) |
| **Heat dissipation** | 6…10 W at 50/60 Hz |

# Environment

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| **IP degree of protection** | IP20 front face conforming to IEC 60529 |
| **Climatic withstand** | conforming to IACS E10 |

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| **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>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 |
| **Height** | 127 mm |
| **Width** | 207 mm |
| **Depth** | 158 mm |
| **Net weight** | 3.2 kg |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |

## 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 >

### Use Longer

#### Lifetime extension

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