

Product datasheet

Specifications



TeSys Deca changeover contactor - 4P(4 NO) - AC-1 - ≤ 440 V 200 A - 380 V AC coil

LC2D1150046Q7

⚠ Discontinued on: 10 Jun 2022

⚠ End-of-service on: 26 Nov 2024

⚠ Discontinued

Main

| | |
|---|---|
| Range | TeSys |
| Product name | TeSys Deca |
| Product or component type | Changeover contactor |
| Device short name | LC2D |
| Contact application | Resistive load |
| Utilisation category | AC-1 AC-3 AC-3e AC-4 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 4P |
| power pole contact composition | 4 NO |
| [Ue] rated operational voltage | Power circuit: ≤ 1000 V AC 25...400 Hz Power circuit: ≤ 460 V DC |
| [Ie] rated operational current | 200 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 | 380 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 | 200 A (at 60 °C) for power circuit |
| Irms rated making capacity | 1260 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 | 250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit 950 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s for power circuit |
| Associated fuse rating | 250 A gG at ≤ 690 V coordination type 1 for power circuit 200 A gG at ≤ 690 V coordination type 2 for power circuit |
| Average impedance | 0.6 mOhm - Ith 200 A 50 Hz for power circuit |
| [Ui] rated insulation voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 |
| Electrical durability | 0.8 Mcycles 200 A AC-1 at Ue ≤ 440 V |
| Power dissipation per pole | 24 W AC-1 |

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| Front cover | With |
| Interlocking type | Mechanical |
| Mounting support | Plate Rail |
| Standards | CSA C22.2 No 60947-4-1 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 60947-4-1 UL 60947-5-1 CSA C22.2 No 60947-5-1 GB/T 14048.4 |
| Product certifications | BV CCC CSA DNV-GL CB RINA UL EAC LROS (Lloyds register of shipping) |
| Connections - terminals | Control circuit: lugs-ring terminals (external diameter: 8 mm) Power circuit: lugs-ring terminals (external diameter: 25 mm) Power circuit: bars 1 cable(s) - busbar cross section: 5 x 25 mm |
| Tightening torque | Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on lugs-ring terminals hexagonal screw head 13 mm M8 Power circuit: 12 N.m - on bars hexagonal screw head 13 mm M8 |
| Operating time | 20...50 ms closing 6...20 ms opening |
| Safety reliability level | B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Mechanical durability | 8000000 cycles |
| Maximum operating rate | 1200 cyc/h 60 °C |

Complementary

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|--|--|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.5 U _c (-40...55 °C):drop-out AC 50/60 Hz 0.8...1.15 U _c (-40...55 °C):operational AC 50/60 Hz |
| 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 (at 20 °C) cos phi 0.3 60 Hz 2...18 VA (at 20 °C) cos phi 0.3 50 Hz |
| Heat dissipation | 3...8 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 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Pollution degree | 3 |
| Ambient air temperature for operation | -40...60 °C 60...70 °C with derating |
| Ambient air temperature for storage | -60...80 °C |

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|------------------------------|---|
| 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 Vibrations contactor closed: 4 Gn, 5...300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 6 Gn for 11 ms |
| Height | 158 mm |
| Width | 334 mm |
| Depth | 148 mm |
| Net weight | 7.4 kg |

Packing Units

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|-------------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 22.5 cm |
| Package 1 Width | 32 cm |
| Package 1 Length | 43.5 cm |
| Package 1 Weight | 7 kg |

Contractual warranty

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| Warranty (in months) | 18 |
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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 Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

PVC free

Yes

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins