

Product datasheet

Specifications



Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, <= 440V, 40A, coil 110V AC

LC2D40F7

⚠ Discontinued on: 24 Jul 2020

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EAN Code: 3389110454833

Main

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|---|--|
| Range | TeSys |
| Product name | TeSys Deca |
| Product or component type | Reversing contactor |
| Device short name | LC2D |
| Contactor application | Resistive load Motor control |
| Utilisation category | AC-1 AC-3 |
| Device presentation | Preassembled with reversing power busbar |
| Poles description | 3P |
| power pole contact composition | 3 NO |
| [Ue] rated operational voltage | Power circuit: <= 1000 V AC 25...400 Hz |
| [Ie] rated operational current | 40 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 60 A (at <40 °C) at <= 440 V AC AC-1 for power circuit |
| Motor power kW | 18.5 kW at 380...400 V AC 50 Hz 11 kW at 220...230 V AC 50 Hz 22 kW at 500 V AC 50 Hz 30 kW at 660...690 V AC 50 Hz 22 kW at 440 V AC 50 Hz 22 kW at 415 V AC 50 Hz |
| Motor power hp | 10 hp at 200/208 V AC 60 Hz for 3 phases motors 3 hp at 115 V AC 60 Hz for 1 phase motors 30 hp at 575...600 V AC 60 Hz for 3 phases motors 30 hp at 460...480 V AC 60 Hz for 3 phases motors 10 hp at 220...240 V AC 60 Hz for 3 phases motors 5 hp at 230...240 V AC 60 Hz for 1 phase motors |
| Control circuit type | AC at 50/60 Hz |
| [Uc] control circuit voltage | 110 V AC 50/60 Hz |
| Auxiliary contact composition | 1 NO + 1 NC |
| [Uimp] rated impulse withstand voltage | 8 kV conforming to IEC 60947 |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 10 A (at 60 °C) for signalling circuit |
| Irms rated making capacity | 140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947-4 |
| Rated breaking capacity | 800 A at 220/415/440 V for power circuit conforming to IEC 60947 800 A at 500 V for power circuit conforming to IEC 60947 400 A at 690 V for power circuit conforming to IEC 60947 |

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| [Icw] rated short-time withstand current | 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min for power circuit |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Average impedance | 1.5 mOhm - Ith 60 A 50 Hz for power circuit |
| [Ui] rated insulation voltage | Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 |
| Power dissipation per pole | 2.4 W AC-3 5.4 W AC-1 |
| Front cover | With |
| Interlocking type | Mechanical |
| Mounting support | Plate Rail |
| Connections - terminals | Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 1...2.5 mm ² flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 1...4 mm ² solid without cable end Control circuit: screw clamp terminals 2 cable(s) 1...4 mm ² solid without cable end Power circuit: screw clamp terminals 1 cable(s) 2.5...25 mm ² flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...16 mm ² flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 2.5...25 mm ² flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...10 mm ² flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 2.5...25 mm ² solid without cable end Power circuit: screw clamp terminals 2 cable(s) 2.5...16 mm ² solid without cable end |
| Tightening torque | Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 6 N.m - on screw clamp terminals - with screwdriver flat Ø 8 mm Power circuit: 6 N.m - on screw clamp terminals |
| 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 |
| Maximum operating rate | 3600 cyc/h 55 °C |

Complementary

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|---------------------------------------|---|
| Coil technology | Built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.6 U _c (-40...70 °C):drop-out AC 50/60 Hz 0.8...1.1 U _c (-40...55 °C):operational AC 50 Hz 0.85...1.1 U _c (-40...55 °C):operational AC 60 Hz 1...1.1 U _c (55...70 °C):operational AC 50/60 Hz |
| Auxiliary contacts type | type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 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 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 |
| 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 |
| Operating altitude | 0...3000 m |
| Fire resistance | 960 °C conforming to IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Vibrations contactor open: 2 Gn, 5...300 Hz Shocks contactor closed: 10 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms Vibrations contactor closed: 3 Gn, 5...300 Hz |
| Height | 127 mm |
| Width | 165 mm |
| Depth | 142 mm |
| Net weight | 2.4 kg |

Packing Units

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|------------------------------|-----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 19.000 cm |
| Package 1 Width | 19.000 cm |
| Package 1 Length | 25.500 cm |
| Package 1 Weight | 3.260 kg |
| Unit Type of Package 2 | S03 |
| Number of Units in Package 2 | 2 |
| Package 2 Height | 30.000 cm |
| Package 2 Width | 30.000 cm |
| Package 2 Length | 40.000 cm |
| Package 2 Weight | 6.935 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 >](#)

Environmental footprint

Total lifecycle Carbon footprint **97**

Environmental Disclosure [Product Environmental Profile](#)

Use Better

Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant**

REACH Regulation [REACH Declaration](#)

PVC free **Yes**

Use Again

Repack and remanufacture

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**