

TeSys Deca changeover contactor - 4P(4 NO) - AC-1 - <= 440 V 40 A - 230 V AC coil

LC2DT40P7

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| Main | | |
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| Range | TeSys TeSys Deca | |
| Product name | TeSys D TeSys Deca | |
| Product or component type | Changeover contactor | |
| Device short name | LC2D | |
| Contactor application | Resistive load | |
| Utilisation category | AC-1 | |
| 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 25400 Hz Power circuit: <= 300 V DC | |
| [le] rated operational current | 40 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 | 230 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 | 10 A (at 60 °C) for signalling circuit 40 A (at 60 °C) for power 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947 | |
| Rated breaking capacity | 450 A at 440 V for power circuit conforming to IEC 60947 | |
| [Icw] rated short-time withstand current | 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit | |
| Associated fuse rating | 10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit | |
| Average impedance | 2 mOhm - Ith 40 A 50 Hz for power circuit | |

| [Ui] rated insulation voltage | Power circuit: 690 V conforming to IEC 60947-4-1 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 | |
|---------------------------------|---|--|
| Electrical durability | 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | |
| Power dissipation per pole | 3.2 W AC-1 | |
| Front cover | With | |
| Interlocking type | Mechanical | |
| Mounting support | Rail Plate | |
| Standards | CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508 IEC 60335-1 | |
| Product certifications | UL CSA CCC EAC UKCA CB EU-RO-MR by DNV-GL | |
| Connections - terminals | Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid without cable end Power circuit: connector 1 cable(s) 2.510 mm²flexible without cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible without cable end Power circuit: connector 1 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 1 cable(s) 2.516 mm²solid without cable end Power circuit: connector 2 cable(s) 2.516 mm²solid 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: 1.7 N.m - on connector - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on connector - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 | |
| Operating time | 1222 ms closing 419 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 | 15 Mcycles | |
| Maximum operating rate | 3600 cyc/h 60 °C | |
| Complementary | | |
| Coil technology | Without built-in suppressor module | |
| Control circuit voltage limits | 0.30.6 Uc (-4060 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz | |
| Inrush power in VA | 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) | |
| Hold-in power consumption in VA | 7.5 VA (at 20 °C) cos phi 0.3 60 Hz 7 VA (at 20 °C) cos phi 0.3 50 Hz | |
| Heat dissipation | 23 W at 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 | 25400 Hz | |
| Minimum switching current | 5 mA for signalling circuit | |
| 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 contact1.5 ms on energisation between NC and NO contact |
| Insulation resistance | > 10 MOhm for signalling circuit |
| Environment | |
| IP degree of protection | IP20 front face conforming to IEC 60529 |
| Climatic withstand | conforming to IACS E10 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 | -4060 °C 6070 °C with derating |
| Ambient air temperature for storage | -6080 °C |
| Operating altitude | 03000 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, 5300 Hz Vibrations contactor closed: 4 Gn, 5300 Hz Shocks contactor closed: 15 Gn for 11 ms Shocks contactor open: 8 Gn for 11 ms |
| Height | 91 mm |
| Width | 90 mm |
| Depth | 98 mm |
| Net weight | 0.85 kg |
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| Packing Units Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 1.01 kg |
| Package 1 Height | 11.4 cm |
| Package 1 width | 11.4 cm |
| Package 1 Length | 14.0 cm |
| Unit Type of Package 2 | P06 |
| Number of Units in Package 2 | 40 |
| Package 2 Weight | 47.4 kg |
| Package 2 Height | 45.0 cm |
| Package 2 width | 60.0 cm |
| Package 2 Length | 80.0 cm |
| Unit Type of Package 3 | S02 |
| Number of Units in Package 3 | 5 |
| Package 3 Weight | 5.425 kg |
| Package 3 Height | 15.0 cm |
| Package 3 width | 30.0 cm |
| Package 3 Length | 40.0 cm |
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Offer Sustainability

| Sustainable offer status | Green Premium product | |
|----------------------------|---|--|
| REACh Regulation | REACh Declaration | |
| REACh free of SVHC | Yes | |
| EU RoHS Directive | Compliant EU RoHS Declaration | |
| Toxic heavy metal free | Yes | |
| Mercury free | Yes | |
| RoHS exemption information | Yes | |
| China RoHS Regulation | China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope) | |
| Environmental Disclosure | Product Environmental Profile | |
| Circularity Profile | End of Life Information | |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins | |
| PVC free | Yes | |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov | |

Contractual warranty

| Warranty 18 m |
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