

REVERSING CONTACTOR 575VAC 25A IEC

Local distributor code: 381823210 LC2D25B7

Main

| Main | | | | |
|---|---|--|--|--|
| Range | TeSys TeSys Deca | | | |
| Product name | TeSys D TeSys Deca | | | |
| Product or component type | Reversing contactor | | | |
| Device short name | LC2D | | | |
| Contactor application | Motor control Resistive load | | | |
| Utilisation category | AC-3 AC-1 | | | |
| Device presentation | Preassembled with reversing power busbar | | | |
| Poles description | 3P | | | |
| Power pole contact composition | 3 NO | | | |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC | | | |
| [le] rated operational current | 25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit | | | |
| Motor power kW | 5.5 kW at 220230 V AC 50 Hz 11 kW at 380400 V AC 50 Hz 11 kW at 415440 V AC 50 Hz 15 kW at 500 V AC 50 Hz 15 kW at 660690 V AC 50 Hz | | | |
| Motor power HP (UL / CSA) | 3 hp at 230/240 V AC 60 Hz for 1 phase motors 5 hp at 200/208 V AC 60 Hz for 3 phases motors 2 hp at 115 V AC 60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 60 Hz for 3 phases motors 15 hp at 460/480 V AC 60 Hz for 3 phases motors 20 hp at 575/600 V AC 60 Hz for 3 phases motors | | | |
| Control circuit type | AC at 50/60 Hz | | | |
| [Uc] control circuit voltage | 24 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 | 1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V | | | | | |
| Power dissipation per pole | 1.25 W AC-3 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 | DNV CSA CCC UL GL LROS (Lloyds register of shipping) BV RINA GOST UKCA | | | | | |
| 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 Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Power circuit: screw clamp terminals 1 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²flexible without cable end Power circuit: screw clamp terminals 1 cable(s) 110 mm²flexible with cable end Power circuit: screw clamp terminals 2 cable(s) 1.56 mm²flexible with cable end Power circuit: screw clamp terminals 1 cable(s) 1.510 mm²solid Power circuit: screw clamp terminals 2 cable(s) 2.510 mm²solid | | | | | |
| 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: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 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 (-4070 °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 11.1 Uc (6070 °C):operational AC 50/60 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 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) | | | | |
| 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 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 | | | | | |
| 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 | 85 mm | | | | |
| Width | 90 mm | | | | |
| Depth | 92 mm | | | | |
| Net weight | 0.787 kg | | | | |
| Packing Units Unit Type of Package 1 | PCE | | | | |
| Number of Units in Package 1 | 1 | | | | |
| Package 1 Weight | 946.0 g | | | | |
| Package 1 Height | 14 cm | | | | |
| Package 1 width | 11.6 cm | | | | |
| Package 1 Length | 11.4 cm | | | | |
| Unit Type of Package 2 | S02 | | | | |
| Number of Units in Package 2 | 5 | | | | |
| Package 2 Weight | 5.076 kg | | | | |
| | | | | | |

| Package 2 Height | 15 cm | |
|------------------|-------|--|
| Package 2 width | 30 cm | |
| Package 2 Length | 40 cm | |

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 | | | | |

Contractual warranty

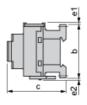
| Warranty | 18 months |
|----------|-----------|

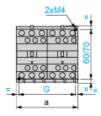
Product datasheet

LC2D25B7

Dimensions Drawings

Dimensions





| LC2 or 2 x LC1 | а | b | c ⁽¹⁾ | e1 | e2 | G |
|------------------------------|----|----|------------------|----|-----|----|
| D09 to D18 (AC) | 90 | 77 | 86 | 4 | 1.5 | 80 |
| D093 to D123 (AC) | 90 | 99 | 86 | - | - | 80 |
| D09 to D18 (DC) | 90 | 77 | 95 | 4 | 1.5 | 80 |
| D093 to D123 (DC) | 90 | 99 | 95 | - | - | 80 |
| D25 to D38 (AC) | 90 | 85 | 92 | 9 | 5 | 80 |
| D183 to D383 (AC) | 90 | 99 | 92 | - | - | 80 |
| D25 to D32 (DC) | 90 | 85 | 101 | 9 | 5 | 80 |
| D183 to D383 (DC) | 90 | 99 | 101 | - | - | 80 |
| e1 and e2: including cabling | • | • | • | • | • | |

e1 and e2: including cabling.

(1) With safety cover, without add-on block.

Product datasheet

LC2D25B7

Connections and Schema

Wiring

