SIEMENS

## Data sheet 3LD2254-1TL51



SENTRON, Switch disconnector 3LD, main switch, 4-pole, Iu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm of the handle

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | 3LD Switch disconnector |
| design of the product | Main switch |
| display version / for switch position indicator manual operation | 1 ON - 0 OFF |
| design of the actuating element | Short rotary knob |
| design of handle | rotary operating mechanism, black |
| type of the driving mechanism / motor drive | No |
| **General technical data** | |
| number of poles | 4 |
| type of device | fixed mounting |
| type of switch | front mounted |
| size of switch disconnector | 2 |
| mechanical service life (switching cycles) / typical | 100 000 |
| electrical endurance (switching cycles) | |
| ● at AC-23 A / at 690 V | 6 000 |
| I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 9 kA2.s |
| let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 9 kA2.s |
| operating frequency / maximum | 50 1/h |
| **Voltage** | |
| insulation voltage / rated value | 690 V |
| surge voltage resistance / rated value | 6 kV |
| operational current / at AC / rated value | 32 A |
| **Protection class** | |
| protection class IP | IP65 |
| degree of protection NEMA rating | 1, 3R, 4X, 12 |
| protection class IP / on the front | IP65 |
| **Dissipation** | |
| power loss [W] | |
| ● for rated value of the current / at AC / in hot operating state / per pole | 1.8 W |
| ● per conductor / typical | 1.8 W |
| **Current** | |
| operational current | |
| ● at AC-23 A / at 400 V / rated value | 22 A |


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| | |
|---|---|
| ● at AC-21 / at 690 V / rated value | 32 A |
| ● at AC-21 A / at 240 V / rated value | 32 A |
| ● at AC-21 A / at 440 V / rated value | 32 A |
| operational current / of upstream fuse / rated value | 40 A |
| let-through current / with closed switch | |
| ● at 440 V / for combination switch + gG fuse / maximum | 4.5 kA |
| ● at 690 V / for combination switch + gG fuse / maximum permissible | 4.5 kA |
| **Main circuit** | |
| operating power | |
| ● at AC-23 A / at 240 V / rated value | 6 kW |
| ● at AC-23 A / at 400 V / rated value | 11.5 kW |
| ● at AC-23 A / at 440 V / rated value | 11.5 kW |
| ● at AC-23 A / at 690 V / rated value | 11.5 kW |
| ● at AC-3 / at 240 V / rated value | 5.5 kW |
| ● at AC-3 / at 400 V / rated value | 9.5 kW |
| ● at AC-3 / at 690 V / rated value | 9.5 kW |
| operational current / rated value | 32 A |
| **Auxiliary circuit** | |
| number of CO contacts / for auxiliary contacts | 0 |
| number of NC contacts / for auxiliary contacts | 0 |
| number of NO contacts / for auxiliary contacts | 0 |
| operating voltage / of auxiliary contacts / at AC / maximum | 500 V |
| continuous current / of the auxiliary contact / rated value | 10 A |
| insulation voltage / of the auxiliary switch / rated value | 500 V |
| **Suitability** | |
| suitability for use | |
| ● main switch | Yes |
| ● switch disconnector | Yes |
| ● EMERGENCY OFF switch | No |
| ● safety switch | Yes |
| ● maintenance/repair switch | Yes |
| **Appearance** | |
| color / of the actuating element | black |
| **Product details** | |
| ● product function / can be locked into OFF position | Yes |
| number of bracket locks / maximum | 3 |
| hasp thickness / of the bracket locks / minimum | 4 mm |
| hasp thickness / of the bracket locks / maximum | 8 mm |
| product extension / optional | |
| ● motor drive | No |
| ● voltage trigger | No |
| **Short circuit** | |
| conditional short-circuit current / with line-side fuse protection | |
| ● at 690 V / by gG fuse / rated value | 50 kA |
| **according UL** | |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value | 32 A |
| operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value | 600 V |
| active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value | 20 |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value | 20 |
| short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1 | 5 kA |
| continuous current / of upstream fuse / according to UL / | 80 A |


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| | |
|---|---|
| rated value | |
| type of fuse / according to UL | RK5 |
| **Number** | |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum | 1 |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum | 1 |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum | 0 |
| **Connections** | |
| AWG number / as coded connectable conductor cross section / solid | |
| ● maximum | 8 |
| ● minimum | 14 |
| type of connectable conductor cross-sections / for copper conductor | |
| ● solid | 1x (1,5...16mm²) |
| ● finely stranded / with core end processing | 1x (1,5...10mm²) |
| ● stranded | 1x (1,5...16mm²) |
| type of connectable conductor cross-sections / for auxiliary contacts | |
| ● solid | 2x (0.75 ... 2.5 mm²), 1x 4 mm² |
| ● finely stranded / with core end processing | 2x (0.75 ... 1.5 mm²), 1x 2.5 mm² |
| ● stranded | 2x (0.75 ... 2.5 mm²), 1x 4 mm² |
| type of electrical connection | |
| ● for main current circuit | box terminal |
| ● for auxiliary contacts | connection terminals |
| **Requirements** | |
| design of the fuse link | |
| ● for short-circuit protection of the main circuit / required | fuse gL/gG: 40 A |
| ● for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 10 A |
| **Mechanical Design** | |
| height | 83 mm |
| width | 67 mm |
| depth | 116.5 mm |
| fastening method | Built-in unit fixed-mounted version |
| fastening method | |
| ● 4-hole front mounting | No |
| ● front mounting with central attachment | Yes |
| ● rail mounting | No |
| net weight | 242 g |
| **Environmental conditions** | |
| ambient temperature / during operation | |
| ● minimum | -25 °C |
| ● maximum | 55 °C |
| ambient temperature / during storage / minimum | -25 °C |
| **Certificates** | |
| reference code | |
| ● acc. to DIN EN 61346-2 | S |
| ● acc. to IEC 81346-2 | SF |

**General Product Approval**

CSA CCC UL VDE

Miscellaneous

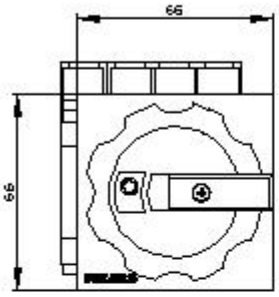
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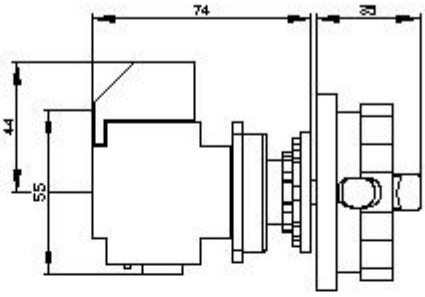

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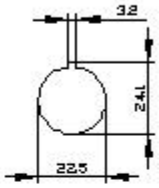
| Declaration of Conformity | Test Certificates | Marine / Shipping | other |
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| EG-Konf. | Special Test Certificate | LRS | Environmental Confirmations |

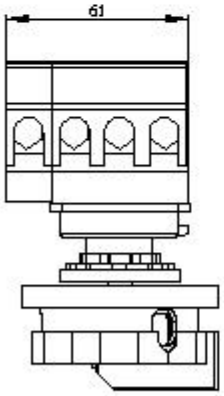
## Further information

**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/lowvoltage/catalogs
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2254-1TL51
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3LD2254-1TL51
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2254-1TL51
**Tender specifications**
http://www.siemens.com/specifications



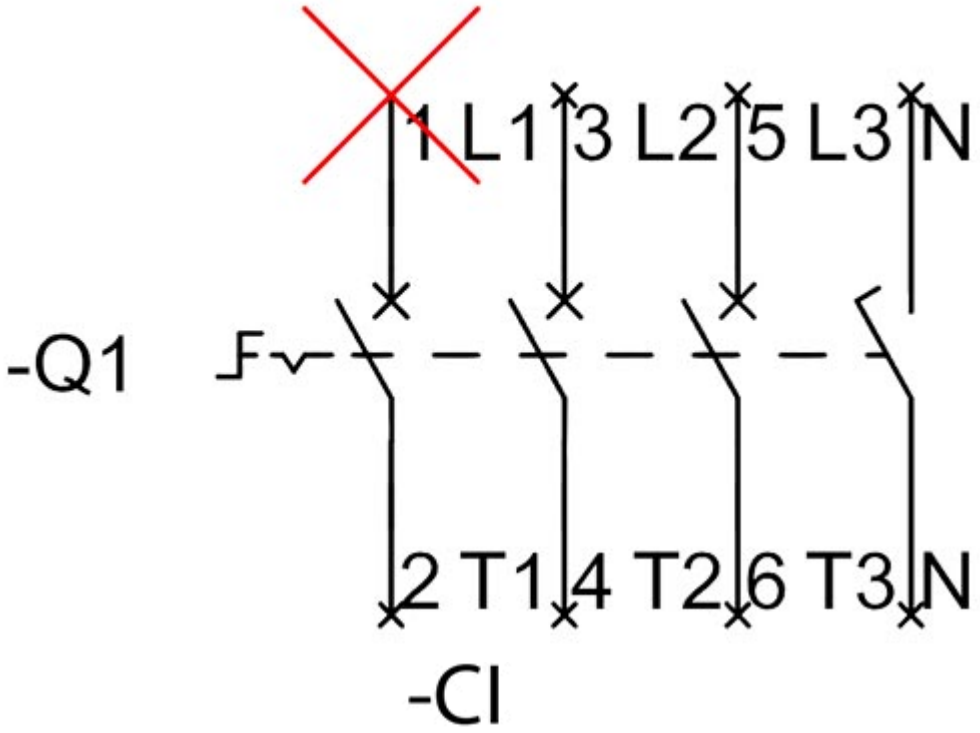



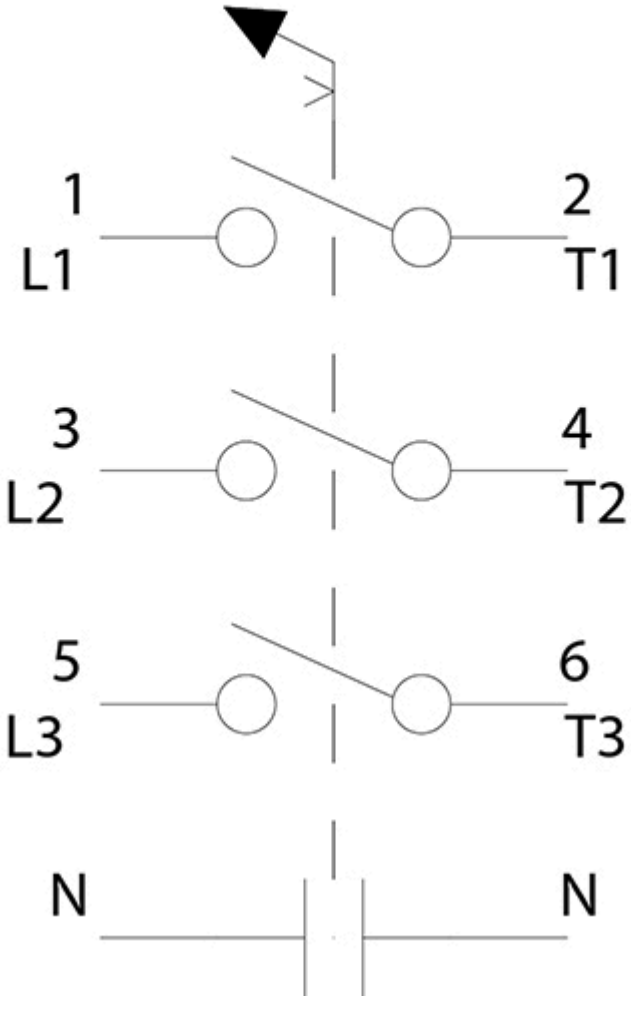





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