SIEMENS

## Data sheet 3LD2054-1TL53

SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, Iu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, rotary operating mechanism, Red / yellow, central mounting 22.5 mm of the handle

| | |
|---|---|
| **Model** | |
| product brand name | SENTRON |
| product designation | Switch disconnector |
| design of the product | EMERGENCY-STOP switch |
| display version for switch position indicator manual operation | 1 ON - 0 OFF |
| type of switch | front mounted |
| design of the actuating element | Short rotary knob |
| color of the actuating element | red |
| design of handle | rotary operating mechanism, red/yellow |
| type of the driving mechanism motor drive | No |
| **General technical data** | |
| number of poles | 4 |
| size of switch disconnector | 1 |
| mechanical service life (operating cycles) typical | 100 000 |
| electrical endurance (operating cycles) | |
| ● at AC-23 A at 690 V | 6 000 |
| operating frequency maximum | 50 1/h |
| degree of pollution | 3 |
| **Voltage** | |
| insulation voltage rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| operating voltage | |
| ● at AC rated value | 690 V |
| operating frequency rated value | |
| ● minimum | 50 Hz |
| ● maximum | 60 Hz |
| **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 | 0.5 W |
| **Main circuit** | |
| operational current | |
| ● at AC-21 at 690 V rated value | 16 A |
| ● at AC-21 A at 240 V rated value | 16 A |
| ● at AC-21 A at 400 V rated value | 16 A |
| ● at AC-21 A at 440 V rated value | 16 A |
| ● at AC-23 A at 400 V rated value | 16 A |


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| operating power | |
| ● at AC-23 A at 240 V rated value | 4 kW |
| ● at AC-23 A at 400 V rated value | 8 kW |
| ● at AC-23 A at 440 V rated value | 7.5 kW |
| ● at AC-23 A at 690 V rated value | 8 kW |
| ● at AC-3 at 240 V rated value | 3 kW |
| ● at AC-3 at 400 V rated value | 6 kW |
| ● at AC-3 at 690 V rated value | 5.5 kW |
| **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 |
| **Suitability** | |
| suitability for use | |
| ● main switch | Yes |
| ● switch disconnector | Yes |
| ● EMERGENCY OFF switch | Yes |
| ● safety switch | Yes |
| ● maintenance/repair switch | Yes |
| **Product details** | |
| product feature can be locked into OFF position | Yes |
| **accessories** | |
| product extension optional | |
| ● motor drive | No |
| ● voltage trigger | No |
| 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 |
| number of bracket locks maximum | 3 |
| hasp thickness of the bracket locks | 4 ... 8 mm |
| **Short circuit** | |
| conditional short-circuit current with line-side fuse protection | |
| ● at 690 V by gG fuse rated value | 50 kA |
| let-through current with closed switch | |
| ● at 240 V for combination switch + gG fuse maximum | 3 kA |
| ● at 440 V for combination switch + gG fuse maximum | 3 kA |
| ● at 690 V for combination switch + gG fuse maximum permissible | 3 kA |
| I2t value with closed switch | |
| ● at 240 V for combination switch + gG fuse maximum | 2.5 kA2.s |
| ● at 440 V for combination switch + gG fuse maximum | 2.5 kA2.s |
| ● at 690 V for combination switch + gG fuse maximum | 3 kA2.s |
| design of the fuse link | |
| ● for short-circuit protection of the main circuit required | fuse gL/gG: 20 A |
| ● for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| operational current of upstream fuse rated value | 20 A |
| **according UL** | |
| operational current at AC according to UL 508/UL 60947-4-1 rated value | 16 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 | 7.5 |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value | 10 |
| 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 rated value | 50 A |


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| type of fuse according to UL | RK5 |
| **Connections** | |
| AWG number as coded connectable conductor cross section solid maximum | |
| • | 10 |
| • | 18 |
| type of connectable conductor cross-sections for copper conductor | |
| • solid | 1x (1...6mm²) |
| • finely stranded with core end processing | 1x (1...4mm²) |
| • stranded | 1x (1..6mm²) |
| 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 |
| **Mechanical Design** | |
| height | 84 mm |
| width | 67 mm |
| depth | 116.5 mm |
| type of device | fixed mounting |
| 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 | 207 g |
| **Environmental conditions** | |
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 55 °C |
| ambient temperature during storage | |
| • minimum | -25 °C |
| • maximum | 55 °C |

**Approvals Certificates**

**General Product Approval**

Confirmation

| General Product Approval | Marine / Shipping | other | | Environment |
|---|---|---|---|---|
| Miscellaneous | | Confirmation | Miscellaneous | Environmental Confirmations |

**Environment**

Environmental Confirmations

**Further information**

**Information on the packaging**


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**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/lowvoltage/catalogs

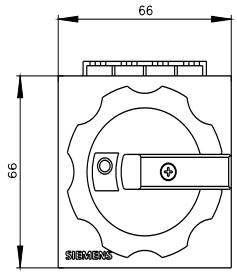
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2054-1TL53

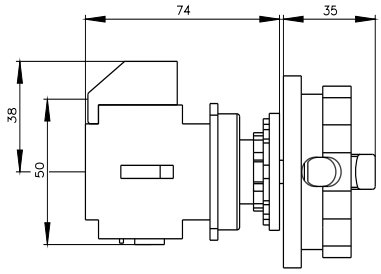
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-1TL53

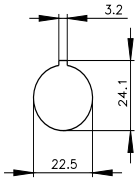
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-1TL53

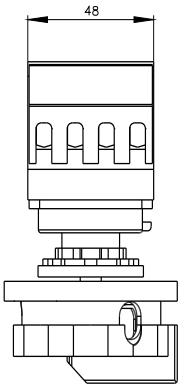
**CAx-Online-Generator**
http://www.siemens.com/cax

**Tender specifications**
http://www.siemens.com/specifications





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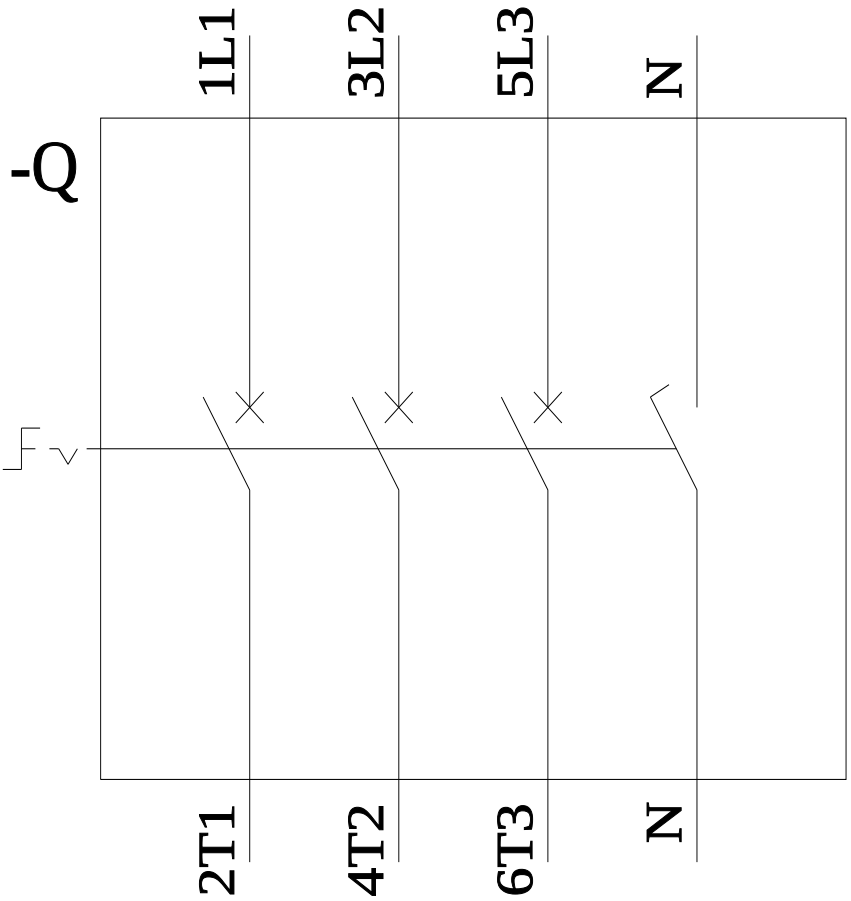


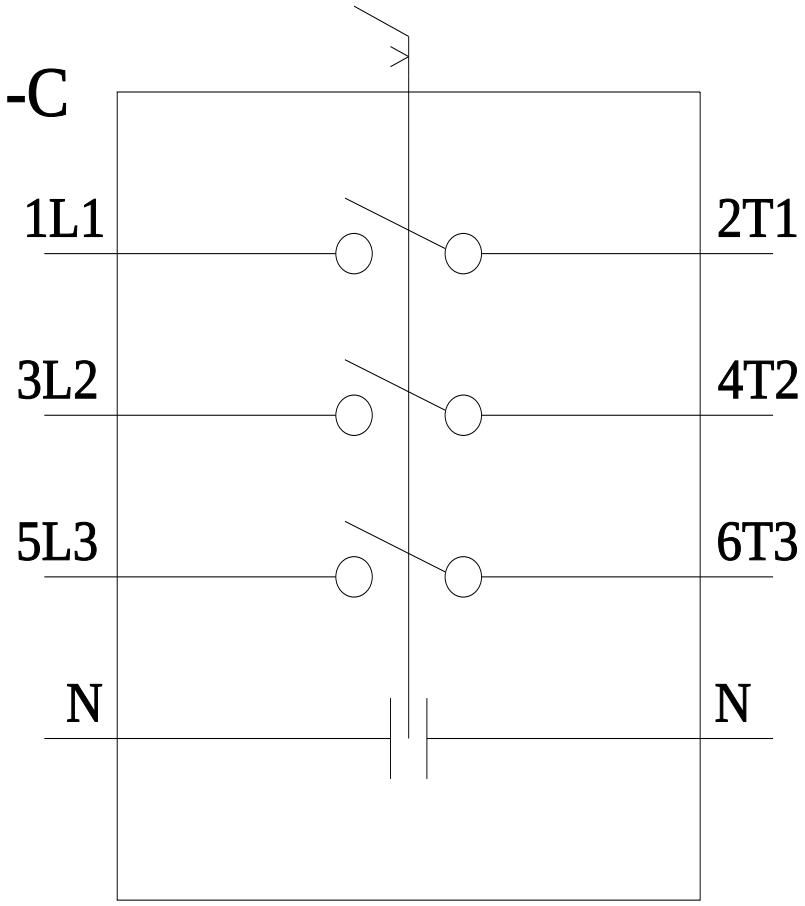


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