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## Data sheet 3LD3450-1TK11




3LD3 switch disconnector, Iu 63 A main switch 3-pole rated operational power at AC-23 A at 400 V 22.0 kW front plate mounting basic switch with center-hole mounting 22.5 mm knob-operated mechanism black 48x48 mm with auxiliary switches 1 NO + 1 NC

| | |
|---|---|
| **Model** | |
| **product brand name** | SENTRON |
| **product designation** | Switch disconnector |
| **design of the product** | Main switch |
| **display version for switch position indicator manual operation** | 1 ON - 0 OFF |
| **type of switch** | front mounted |
| **design of the actuating element** | selector switch |
| **color of the actuating element** | black |
| **design of handle** | knob-operated mechanism, black |
| **type of the driving mechanism motor drive** | No |
| **General technical data** | |
| **number of poles** | 3 |
| **number of poles note** | 3 |
| **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 | 4.5 W |
| **Main circuit** | |
| **operational current** | |
| ● at AC-21 at 690 V rated value | 63 A |
| ● at AC-21 A at 240 V rated value | 63 A |
| ● at AC-21 A at 400 V rated value | 63 A |
| ● at AC-21 A at 440 V rated value | 63 A |


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| | |
|---|---|
| ● at AC-23 A at 400 V rated value | 43 A |
| **operating power** | |
| ● at AC-23 A at 240 V rated value | 11 kW |
| ● at AC-23 A at 400 V rated value | 22 kW |
| ● at AC-23 A at 440 V rated value | 22 kW |
| ● at AC-23 A at 690 V rated value | 19 kW |
| ● at AC-3 at 240 V rated value | 11 kW |
| ● at AC-3 at 400 V rated value | 19 kW |
| ● at AC-3 at 690 V rated value | 15 kW |
| **Auxiliary circuit** | |
| number of CO contacts for auxiliary contacts | 0 |
| **number of NC contacts for auxiliary contacts** | 1 |
| **number of NO contacts for auxiliary contacts** | 1 |
| **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 |
| **suitability for use switch disconnector** | Yes |
| **suitability for use EMERGENCY OFF switch** | No |
| **suitability for use safety switch** | Yes |
| **suitability for use maintenance/repair switch** | Yes |
| **Product details** | |
| **special product feature** | Can be locked in zero position |
| **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** | 2 |
| **number of connectable NO contacts for auxiliary contacts attachable maximum** | 4 |
| **number of connectable CO contacts for auxiliary contacts attachable maximum** | 0 |
| **number of bracket locks maximum** | 2 |
| **hasp thickness of the bracket locks** | 4 ... 6 mm |
| **Short circuit** | |
| **conditional short-circuit current with line-side fuse protection** | |
| ● at 440 V by gG fuse rated value | 10 kA |
| ● at 690 V by gG fuse rated value | 6 kA |
| **let-through current with closed switch** | |
| ● at 240 V for combination switch + gG fuse maximum | 6 kA |
| ● at 440 V for combination switch + gG fuse maximum | 6 kA |
| ● at 690 V for combination switch + gG fuse maximum permissible | 6 kA |
| **I2t value with closed switch** | |
| ● at 240 V for combination switch + gG fuse maximum | 21 kA2.s |
| ● at 440 V for combination switch + gG fuse maximum | 21 kA2.s |
| ● at 690 V for combination switch + gG fuse maximum | 21 kA2.s |
| **design of the fuse link** | |
| ● for short-circuit protection of the main circuit required | fuse gL/gG: 63 A |
| ● for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| **operational current of upstream fuse rated value** | 63 A |
| **according UL** | |
| **operational current at AC according to UL 508/UL 60947-4-1 rated value** | 63 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** | 25 |
| **active power [hp] at AC at 600 V according to UL 508/UL** | 30 |


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| | |
|---|---|
| **60947-4-1 rated value** | |
| **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 |
| **type of fuse according to UL** | RK5 |
| **Connections** | |
| **AWG number as coded connectable conductor cross section solid maximum** | |
| ● | 6 |
| ● | 14 |
| **type of connectable conductor cross-sections for copper conductor** | |
| ● solid | 1x (2.5 to 16 mm²) |
| ● finely stranded with core end processing | 1x (2.5...16 mm²) |
| ● stranded | 1x (2.5 to 16 mm²) |
| **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 | Box terminals |
| **Mechanical Design** | |
| **height** | 60 mm |
| **width** | 47 mm |
| **depth** | 114 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** | 219 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 | | | | | other |
|---|---|---|---|---|---|
| CCC | UKCA | CE EG-Konf. | UL | EAC | 产品合格 QC PASS |

| other | Environment | |
|---|---|---|
| Confirmation | Environmental Confirmations | Environmental Confirmations |

**Further information**

**Information on the packaging**
https://support.industry.siemens.com/cs/ww/en/view/109813875
**Information for data generation and storage**
https://support.industry.siemens.com/cs/ww/en/view/109995012
**Information- and Downloadcenter (Catalogs, Brochures,…)**


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https://www.siemens.com/lowvoltage/catalogs

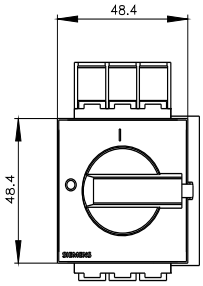
**Industry Mall (Online ordering system)**
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3450-1TK11

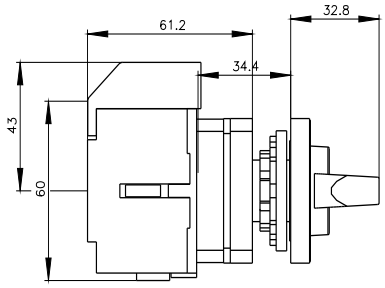
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3LD3450-1TK11

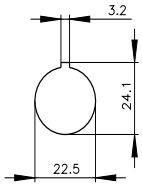
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3450-1TK11

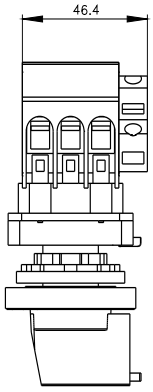
**CAx-Online-Generator**
https://www.siemens.com/cax

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




**last modified:** 10/14/2025


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