

SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 4- pole, Iu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle



| Model | |
|--|--|
| Product brand name | SENTRON |
| Product designation | 3LD Switch disconnecter |
| Design of the product | EMERGENCY-STOP switch |
| Display version / for switch position indicator manual operation | 1 ON - 0 OFF |
| Design of the operating mechanism | Short rotary knob |
| Design of handle | rotary operating mechanism, red/yellow |
| Type of the driving mechanism / motor drive | No |

| General technical data | |
|--|-----------------------------------|
| Number of poles | 4 |
| Type of device | fixed mounting |
| Type of switch | Floor mounting with door coupling |
| Size of switch disconnecter | 2 |
| 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 I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 9 kA ² .s |
| Mechanical service life (switching cycles) / typical | 100 000 |
| Operating frequency / maximum | 50 1/h |

Voltage

| | |
|---|-------|
| Insulation voltage / rated value | 690 V |
| Surge voltage resistance / rated value | 6 kV |
| Operating current / at AC / rated value | 32 A |
| Operating voltage | |
| <ul style="list-style-type: none"> at AC / at 50/60 Hz / rated value | 690 V |

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] | |
| <ul style="list-style-type: none"> for rated value of the current / at AC / in hot operating state / per pole | 1.8 W |
| <ul style="list-style-type: none"> per conductor / typical | 1.8 W |

Current

| | |
|---|--------|
| Operating current | |
| <ul style="list-style-type: none"> at AC-23 A / at 690 V / rated value | 13 A |
| <ul style="list-style-type: none"> at AC-23 A / at 400 V / rated value | 22 A |
| <ul style="list-style-type: none"> at AC-22 A / at 690 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-21 / at 690 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-21 A / at 240 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-21 A / at 440 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-22 A / at 240 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-22 A / at 440 V / rated value | 32 A |
| <ul style="list-style-type: none"> at AC-23 A / at 240 V / rated value | 22 A |
| <ul style="list-style-type: none"> at AC-23 A / at 440 V / rated value | 22 A |
| Operating current / of upstream fuse / rated value | 40 A |
| Let-through current / with closed switch | |
| <ul style="list-style-type: none"> at 440 V / for combination switch + gG fuse / maximum | 4.5 kA |
| <ul style="list-style-type: none"> at 690 V / for combination switch + gG fuse / maximum permissible | 4.5 kA |
| Short-time withstand current (I _{cw}) | |
| <ul style="list-style-type: none"> limited to 1 s / rated value | 640 A |
| <ul style="list-style-type: none"> at 690 V / limited to 1 s / rated value | 640 A |

Main circuit

| | |
|---|--|
| Operating frequency | |
| <ul style="list-style-type: none"> • initial value • Full-scale value | 50 Hz 60 Hz |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value • at AC-23 A / at 400 V / at 50/60 Hz / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 690 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 690 V / rated value | 6 kW 11.5 kW 11.5 kW 11.5 kW 11.5 kW 5.5 kW 9.5 kW 9.5 kW |
| Operating 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 | |
| <ul style="list-style-type: none"> • Main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch | Yes Yes Yes Yes Yes |

Appearance

| | |
|----------------------------------|-----|
| Color / of the actuating element | red |
|----------------------------------|-----|

Product details

| | |
|--|----------|
| <ul style="list-style-type: none"> • 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 | |
| <ul style="list-style-type: none"> • motor drive • Voltage trigger | No No |

| Short circuit | |
|---|--|
| Conditional short-circuit current / with line-side fuse protection | |
| <ul style="list-style-type: none"> at 690 V / by gG fuse / rated value | 50 kA |
| according UL | |
| Operating current / at AC / acc. to UL 508 / rated value | 32 A |
| Operating voltage / at AC / at 50/60 Hz / acc. to UL 508 / rated value | 600 V |
| Active power [hp] / at AC / at 480 V / acc. to UL 508 / rated value | 20 |
| Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value | 20 |
| Short-time withstand current (SCCR) / at 600 V / acc. to UL 508 | 5 kA |
| Continuous current / of upstream fuse / according to UL / rated value | 80 A |
| Type of fuse / according to UL | RK5 |
| Number | |
| Number of connectable NC contacts / for auxiliary contacts / attachable / maximum | 2 |
| Number of connectable NO contacts / for auxiliary contacts / attachable / maximum | 3 |
| Number of connectable CO contacts / for auxiliary contacts / attachable / maximum | 0 |
| Connections | |
| AWG number / as coded connectable conductor cross section / solid | |
| <ul style="list-style-type: none"> maximum minimum | 8 14 |
| Type of connectable conductor cross-sections / for copper conductor | |
| <ul style="list-style-type: none"> solid finely stranded / with core end processing stranded | 1x (1,5...16mm ²) 1x (1,5...10mm ²) 1x (1,5...16mm ²) |
| Type of connectable conductor cross-sections / for auxiliary contacts | |
| <ul style="list-style-type: none"> solid finely stranded / with core end processing stranded | lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) |
| Type of electrical connection | |

- for main current circuit
- for auxiliary contacts

box terminal
connection terminals

Requirements

Design of the fuse link

- for short-circuit protection of the main circuit / required
- for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 40 A

fuse gL/gG: 10 A

Mechanical Design

Height

83 mm

Width

67 mm

Depth

451.5 mm

Mounting type

Built-in unit fixed-mounted version

Mounting type

- front mounting with 4-hole attachment
- front mounting with central attachment
- rail mounting

Yes

No

Yes

Net weight

444 g

Environmental conditions

Ambient temperature / during operation

- minimum
- maximum

-25 °C

55 °C

Ambient temperature / during storage / minimum

-25 °C

Certificates

Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

S

SF

General Product Approval

Declaration of Conformity



CCC



CSA



UL



VDE

[Miscellaneous](#)



EG-Konf.

Test Certificates

Shipping Approval

other

[Special Test Certificate](#)



LRS



PRS

[Environmental Conformations](#)

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?mfb=3LD2213-1TL53>

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2213-1TL53>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

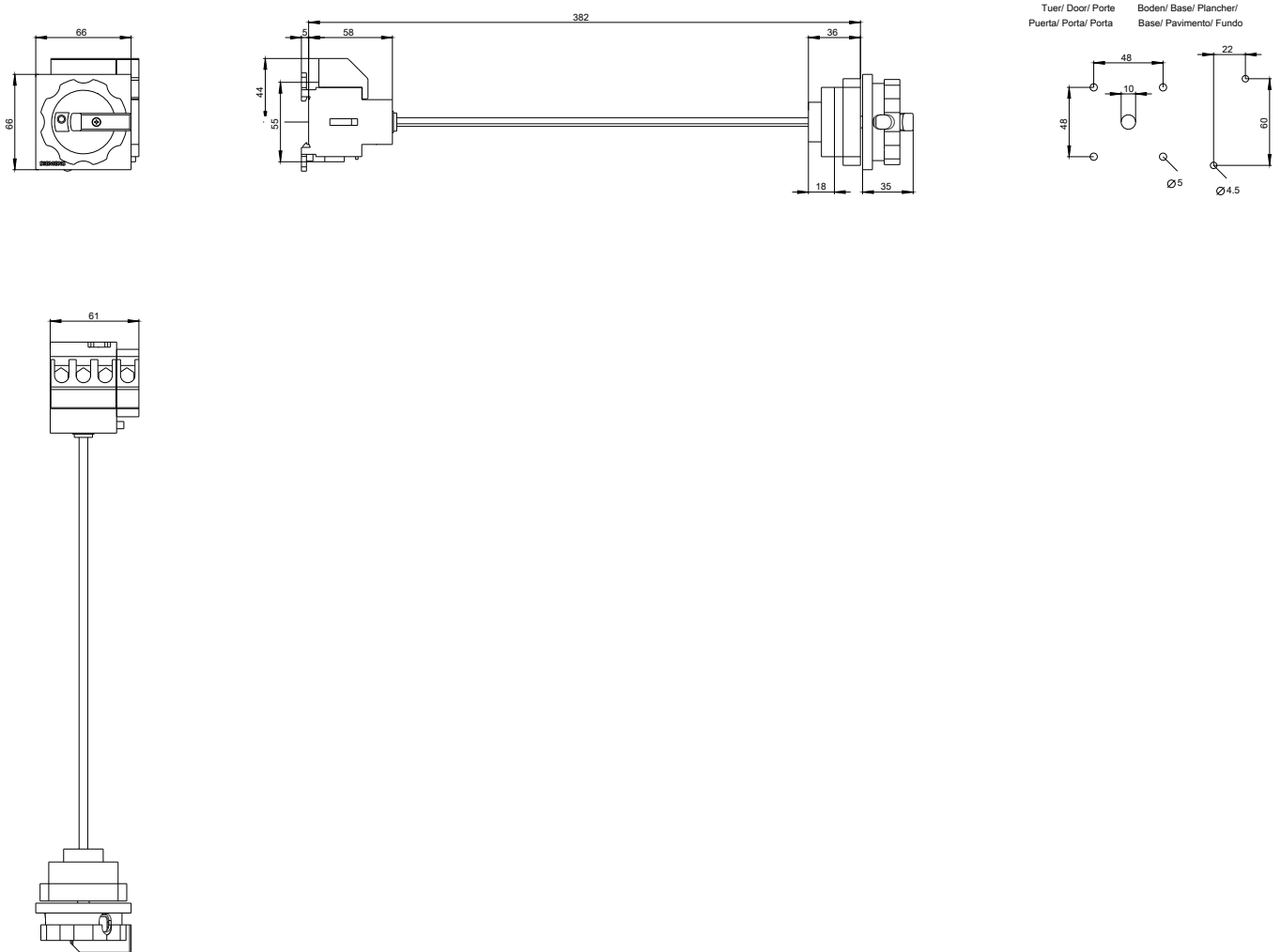
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD2213-1TL53

CAX-Online-Generator

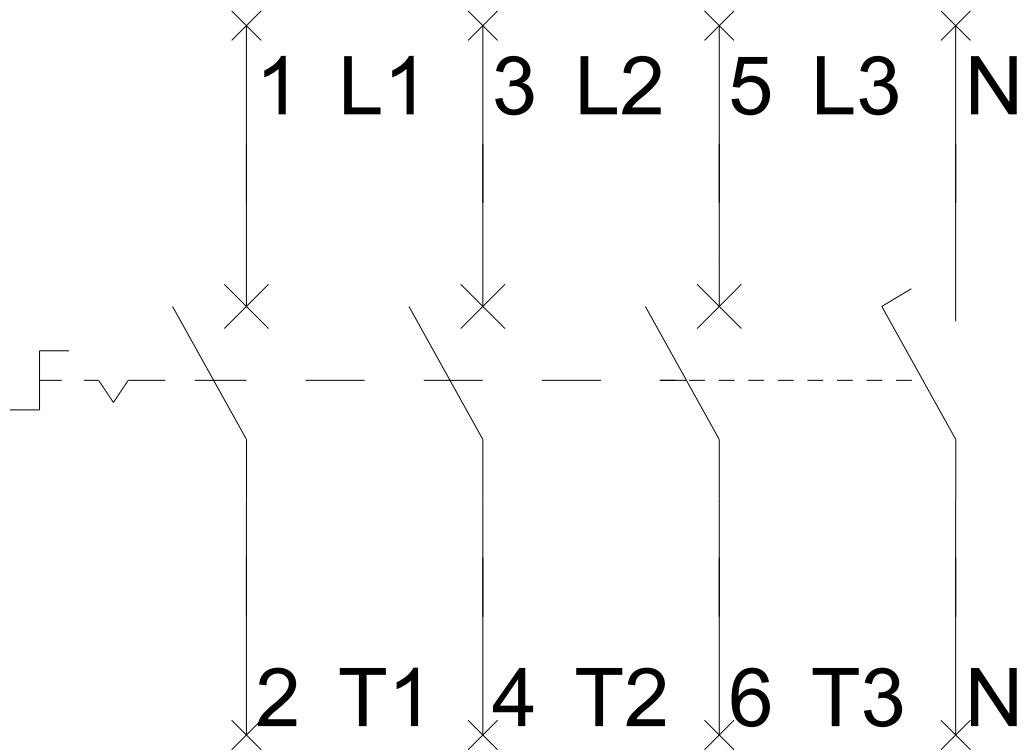
<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>



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