



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 125 A, operating power / at AC-23 A 400 V: 45 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle, without tolerance compensation, Installation dimension 138.5 mm, Handle rotated by 90°

| Model                                                            |                                        |
|------------------------------------------------------------------|----------------------------------------|
| product brand name                                               | SETRON                                 |
| 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 actuating element                                  | 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                                                  | 3                                      |
| type of device                                                   | fixed mounting                         |
| type of switch                                                   | Floor mounting with door coupling      |
| size of switch disconnecter                                      | 4                                      |
| 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             | 104 kA <sup>2</sup> .s |
| let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 104 kA <sup>2</sup> .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                                                             | 125 A |
| operating voltage <ul style="list-style-type: none"> <li>at AC / at 50/60 Hz / rated value</li> </ul> | 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"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul> | 12 W |
|---------------------------------------------------------------------------------------------------------------------------------------------|------|

## Current

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| operational current <ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-22 A / at 690 V / rated value</li> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> </ul> | 39 A<br>80 A<br>125 A<br>125 A<br>125 A<br>125 A<br>125 A<br>125 A<br>80 A<br>80 A |
| operational current / of upstream fuse / rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 125 A                                                                              |
| let-through current / with closed switch <ul style="list-style-type: none"> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>                                                                                                                                                                                                                                                                                                  | 10 kA<br>10 kA                                                                     |
| short-time withstand current (I <sub>cw</sub> ) <ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               | 2 000 A                                                                            |

## Main circuit

|                     |  |
|---------------------|--|
| operating frequency |  |
|---------------------|--|

|                                                     |       |
|-----------------------------------------------------|-------|
| • initial value                                     | 50 Hz |
| • full-scale value                                  | 60 Hz |
| operating power                                     |       |
| • at AC-23 A / at 240 V / rated value               | 22 kW |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value | 45 kW |
| • at AC-23 A / at 400 V / rated value               | 45 kW |
| • at AC-23 A / at 440 V / rated value               | 45 kW |
| • at AC-23 A / at 690 V / rated value               | 37 kW |
| • at AC-3 / at 240 V / rated value                  | 22 kW |
| • at AC-3 / at 400 V / rated value                  | 37 kW |
| • at AC-3 / at 690 V / rated value                  | 30 kW |
| operational current / rated value                   | 125 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 disconnecter       | Yes |
| • EMERGENCY OFF switch      | Yes |
| • safety switch             | Yes |
| • maintenance/repair switch | Yes |

| Appearance                       |     |
|----------------------------------|-----|
| color / of the actuating element | red |

| 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                                                                                |
| special product feature                              | Without tolerance compensation, installation dimension 138.5 mm, handle rotated 90° |
| 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

20 kA

## according UL

operational current / at AC / according to UL 508/UL 60947-4-1 / rated value

125 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

75

active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value

100

short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1

10 kA

continuous current / of upstream fuse / according to UL / rated value

200 A

type of fuse / according to UL

RK5

## Number

number of connectable NC contacts / for auxiliary contacts / attachable / maximum

3

number of connectable NO contacts / for auxiliary contacts / attachable / maximum

5

number of connectable CO contacts / for auxiliary contacts / attachable / maximum

0

## Connections

AWG number / as coded connectable conductor cross section / solid

- maximum
- minimum

1

12

type of connectable conductor cross-sections / for copper conductor

- solid
- finely stranded / with core end processing
- stranded

1x (4...50mm<sup>2</sup>)

1x (4...35mm<sup>2</sup>)

1x (4...50mm<sup>2</sup>)

type of connectable conductor cross-sections / for auxiliary contacts

- solid
- finely stranded / with core end processing
- stranded

lateral auxiliary switch 2x (0,75 ... 2,5mm<sup>2</sup>), 1x 4mm<sup>2</sup>; front auxiliary switch 1x (0,75 ... 2,5mm<sup>2</sup>)

lateral auxiliary switch 2x (0,75 ... 1,5mm<sup>2</sup>), 1x 2,5mm<sup>2</sup>; front auxiliary switch 1x 2,5mm<sup>2</sup>

lateral auxiliary switch 2x (0,75 ... 2,5mm<sup>2</sup>), 1x 4mm<sup>2</sup>; front auxiliary switch 1x (0,75 ... 2,5mm<sup>2</sup>)

|                                                                                                                |                                      |
|----------------------------------------------------------------------------------------------------------------|--------------------------------------|
| type of electrical connection                                                                                  |                                      |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul> | box terminal<br>connection terminals |

## Requirements

|                                                                                                                     |                  |
|---------------------------------------------------------------------------------------------------------------------|------------------|
| design of the fuse link                                                                                             |                  |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul> | fuse gL/gG: 10 A |

## Mechanical Design

|                                                                                            |                                     |
|--------------------------------------------------------------------------------------------|-------------------------------------|
| height                                                                                     | 105 mm                              |
| width                                                                                      | 71 mm                               |
| depth                                                                                      | 361 mm                              |
| fastening method                                                                           | Built-in unit fixed-mounted version |
| fastening method                                                                           |                                     |
| <ul style="list-style-type: none"> <li>• 4-hole front mounting</li> </ul>                  | Yes                                 |
| <ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul> | No                                  |
| <ul style="list-style-type: none"> <li>• rail mounting</li> </ul>                          | Yes                                 |
| net weight                                                                                 | 725 g                               |

## Environmental conditions

|                                                             |        |
|-------------------------------------------------------------|--------|
| ambient temperature / during operation                      |        |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul> | -25 °C |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul> | 55 °C  |
| ambient temperature / during storage / minimum              | -25 °C |

## Certificates

|                                                                            |    |
|----------------------------------------------------------------------------|----|
| reference code                                                             |    |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul> | S  |
| <ul style="list-style-type: none"> <li>• acc. to IEC 81346-2</li> </ul>    | SF |

| General Product Approval | Declaration of Conformity |
|--------------------------|---------------------------|
|--------------------------|---------------------------|



CSA



CCC



UL



VDE

[Miscellaneous](#)



EG-Konf.

| Test Certificates | Shipping Approval | other |
|-------------------|-------------------|-------|
|-------------------|-------------------|-------|

[Special Test Certificate](#)



LRS

[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?mlfb=3LD2816-0TK53-0AG1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2816-0TK53-0AG1>

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

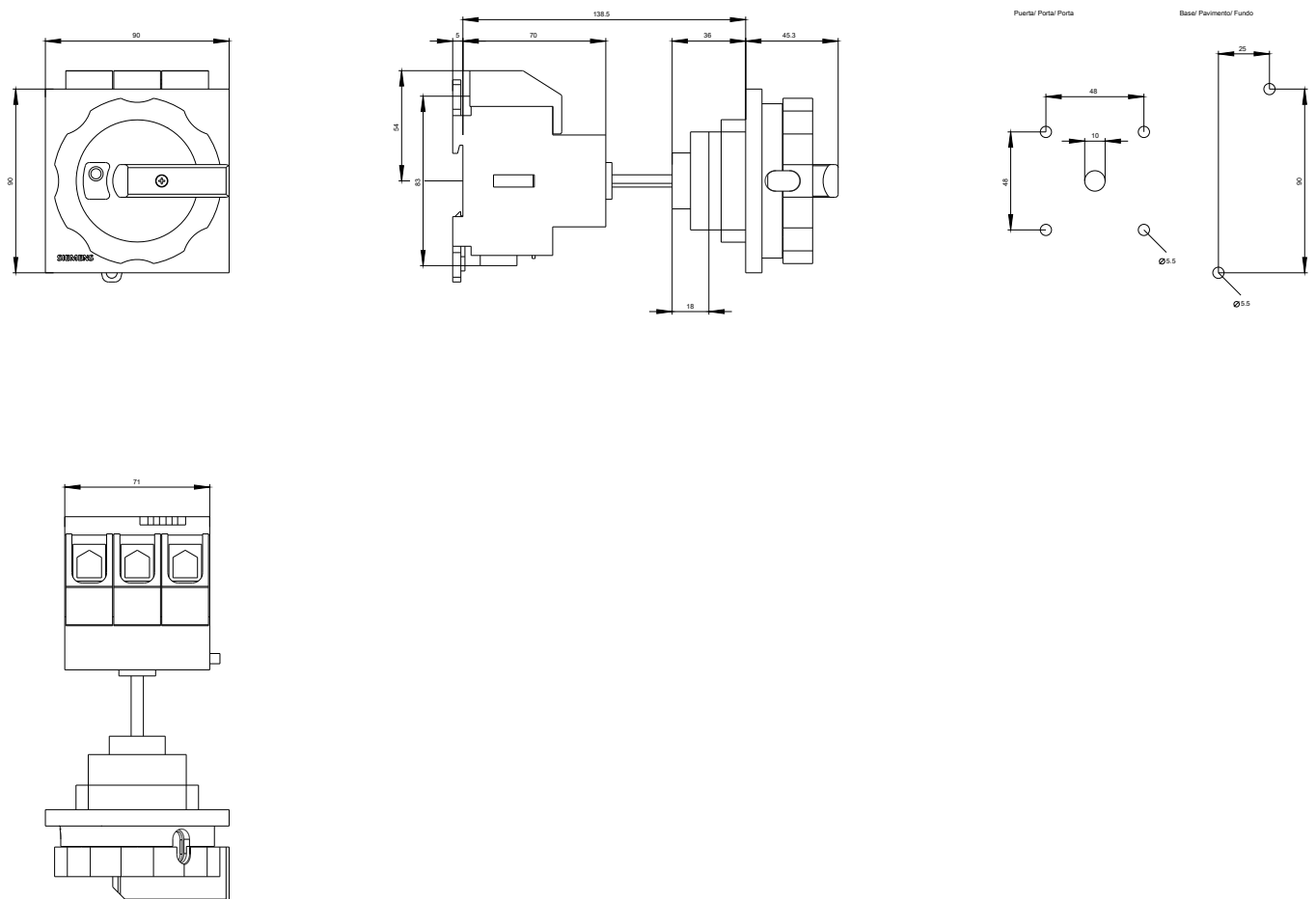
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2816-0TK53-0AG1](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2816-0TK53-0AG1)

### CAX-Online-Generator

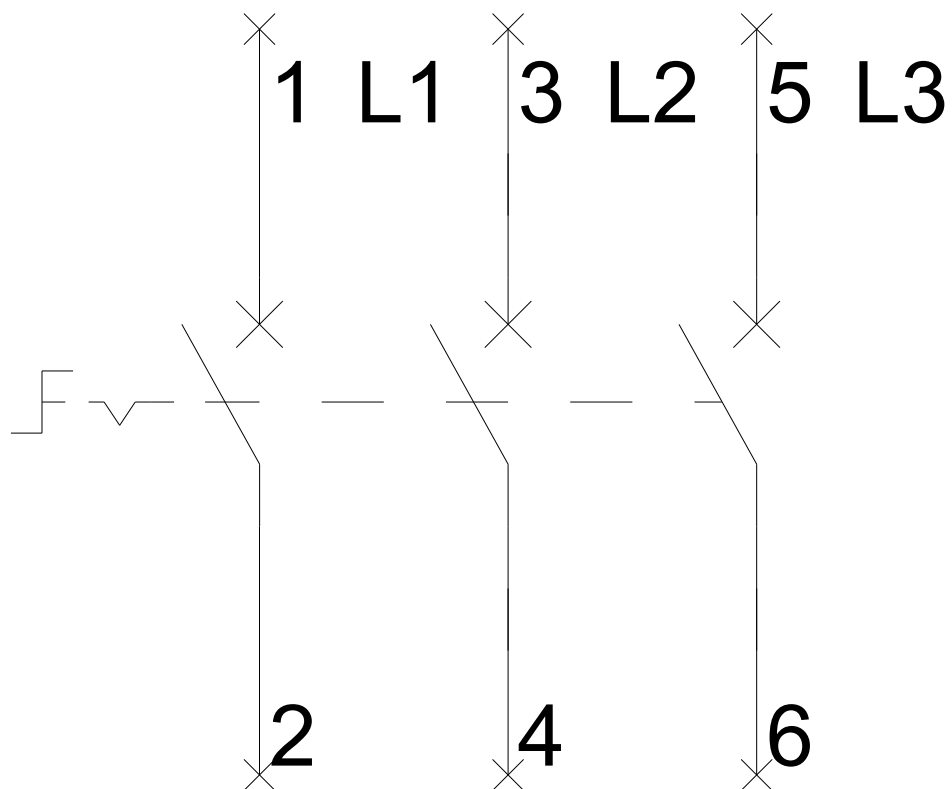
<http://www.siemens.com/cax>

### Tender specifications

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



**-Q1**



-CI

