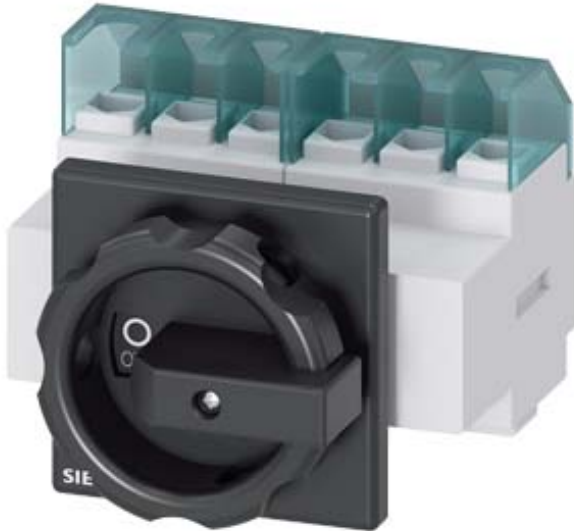


SETRON, Switch disconnecter 3LD, main switch, 6-pole, Iu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle



Model	
Product brand name	SETRON
Product designation	3LD Switch disconnecter
Design of the product	Main 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, black
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	6
Type of device	fixed mounting
Type of switch	front mounted
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	4 kA2.s

Let-through I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA <sup>2</sup> .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	25 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>	1.1 W
<ul style="list-style-type: none"> <li>per conductor / typical</li> </ul>	1.1 W

### Current

Operating current	
<ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> </ul>	11 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 400 V / rated value</li> </ul>	20 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 690 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-21 / at 690 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-21 A / at 240 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-21 A / at 440 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 240 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 440 V / rated value</li> </ul>	25 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 240 V / rated value</li> </ul>	20 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 440 V / rated value</li> </ul>	20 A
Operating current / of upstream fuse / rated value	25 A
Let-through current / with closed switch	
<ul style="list-style-type: none"> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	3.5 kA
<ul style="list-style-type: none"> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	3.5 kA
Short-time withstand current (I <sub>cw</sub> )	
<ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> </ul>	640 A
<ul style="list-style-type: none"> <li>at 690 V / limited to 1 s / rated value</li> </ul>	640 A

### Main circuit

Operating frequency	
<ul style="list-style-type: none"> <li>• initial value</li> <li>• Full-scale value</li> </ul>	<p>50 Hz</p> <p>60 Hz</p>
Operating power	
<ul style="list-style-type: none"> <li>• at AC-23 A / at 240 V / rated value</li> <li>• at AC-23 A / at 400 V / at 50/60 Hz / rated value</li> <li>• at AC-23 A / at 400 V / rated value</li> <li>• at AC-23 A / at 440 V / rated value</li> <li>• at AC-23 A / at 690 V / rated value</li> <li>• at AC-3 / at 240 V / rated value</li> <li>• at AC-3 / at 400 V / rated value</li> <li>• at AC-3 / at 690 V / rated value</li> </ul>	<p>5 kW</p> <p>9.5 kW</p> <p>9.5 kW</p> <p>9.5 kW</p> <p>9.5 kW</p> <p>4 kW</p> <p>7.5 kW</p> <p>7.5 kW</p>
Operating current / rated value	25 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"> <li>• Main switch</li> <li>• switch disconnecter</li> <li>• EMERGENCY OFF switch</li> <li>• safety switch</li> <li>• maintenance/repair switch</li> </ul>	<p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p>

### Appearance

Color / of the actuating element	black
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### Product details

<ul style="list-style-type: none"> <li>• Product function / can be locked into OFF position</li> </ul>	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"> <li>• motor drive</li> <li>• Voltage trigger</li> </ul>	<p>No</p> <p>No</p>

## Short circuit

Conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> <li>at 690 V / by gG fuse / rated value</li> </ul>	50 kA

## according UL

Operating current / at AC / acc. to UL 508 / rated value	25 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	10
Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value	15
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	5 kA
Continuous current / of upstream fuse / according to UL / rated value	50 A
Type of fuse / according to UL	RK5
Number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
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"> <li>maximum</li> <li>minimum</li> </ul>	8 14
Type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>	1x (1,5...16mm <sup>2</sup> ) 1x (1,5...10mm <sup>2</sup> ) 1x (1,5...16mm <sup>2</sup> )
Type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>	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> </ul>	box terminal

- for auxiliary contacts

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: 25 A

fuse gL/gG: 10 A

## Mechanical Design

Height	84 mm
Width	67 mm
Depth	92.5 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>
Net weight	382 g

## Environmental conditions

Ambient temperature / during operation	<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>
Ambient temperature / during storage / minimum	

-25 °C

55 °C

-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?mlfb=3LD2103-3VK51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2103-3VK51>

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

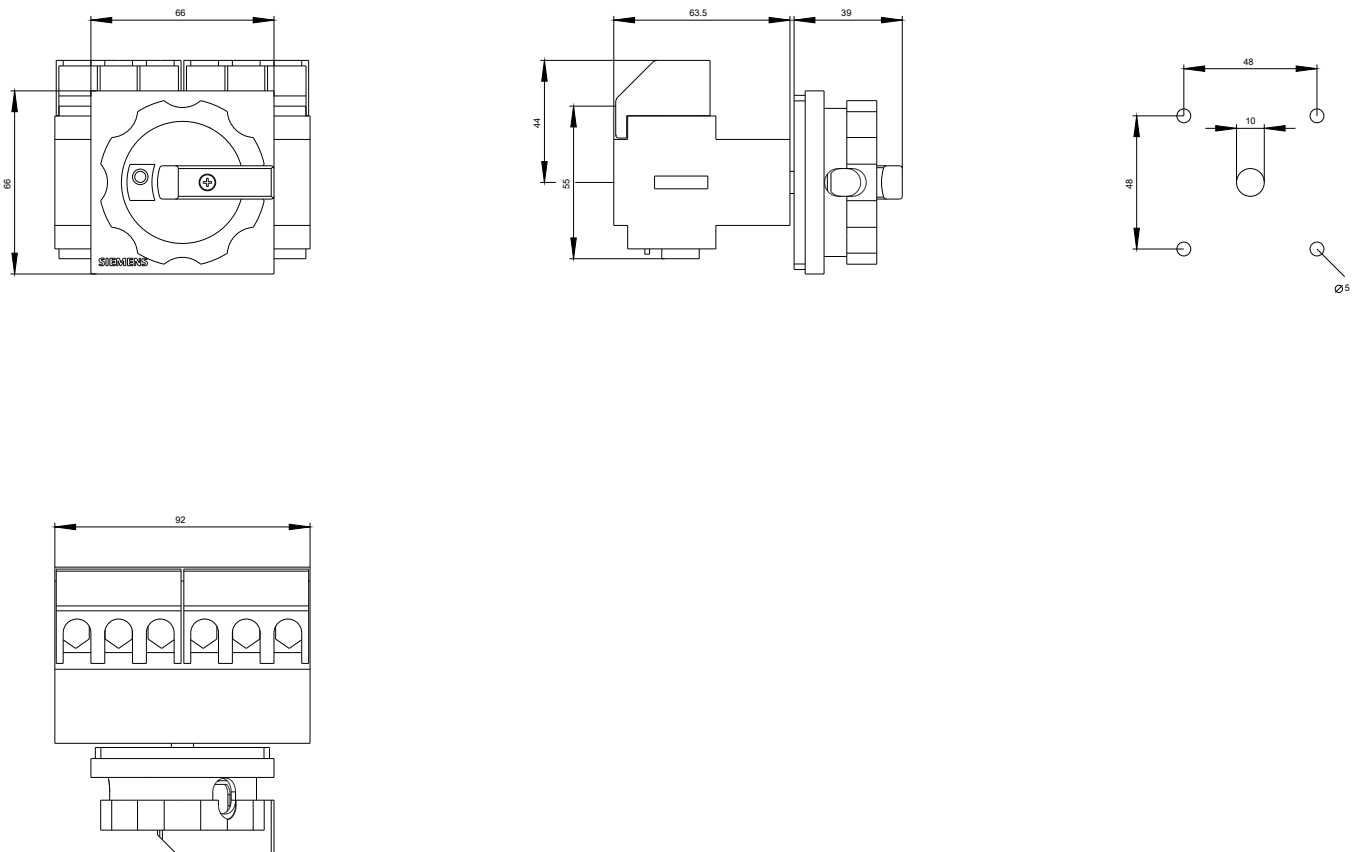
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2103-3VK51](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2103-3VK51)

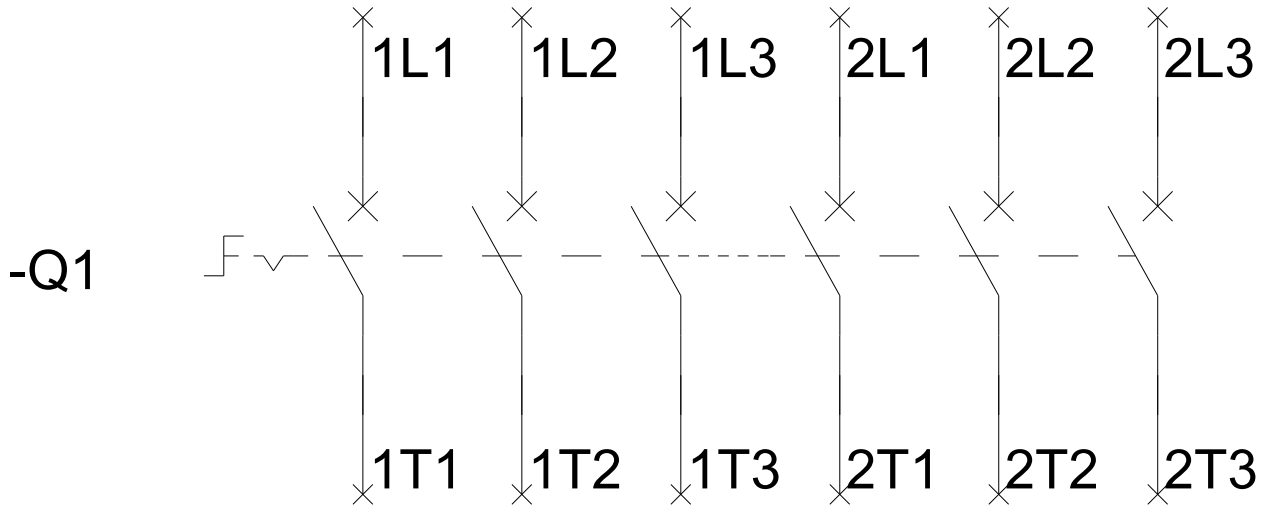
### CAX-Online-Generator

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

### Tender specifications

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





# -CI

