

SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 100 A, operating power / at AC-23 A 400 V: 37 kW, Molded plastic encapsulation for metric cable gland, rotary operating mechanism, red/yellow



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 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	3
Number of poles / Note	N + PE
Type of device	fixed mounting
Type of switch	Molded-plastic enclosure for metric threaded joint
Size of switch disconnecter	4
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	64 kA2.s

Let-through I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	64 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	100 A
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V

### Protection class

Protection class IP	IP65
Degree of protection NEMA rating	1, 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	7.5 W
• per conductor / typical	7.5 W

### Current

Operating current	
• at AC-23 A / at 690 V / rated value	34 A
• at AC-23 A / at 400 V / rated value	70 A
• at AC-22 A / at 690 V / rated value	100 A
• at AC-21 / at 690 V / rated value	100 A
• at AC-21 A / at 240 V / rated value	100 A
• at AC-21 A / at 440 V / rated value	100 A
• at AC-22 A / at 240 V / rated value	100 A
• at AC-22 A / at 440 V / rated value	100 A
• at AC-23 A / at 240 V / rated value	70 A
• at AC-23 A / at 440 V / rated value	70 A
Operating current / of upstream fuse / rated value	100 A
Let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse / maximum	10 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	10 kA
Short-time withstand current (I <sub>cw</sub> )	
• limited to 1 s / rated value	2 000 A
• at 690 V / limited to 1 s / rated value	2 000 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>18.5 kW</p> <p>37 kW</p> <p>37 kW</p> <p>37 kW</p> <p>30 kW</p> <p>18.5 kW</p> <p>30 kW</p> <p>22 kW</p>
Operating current / rated value	100 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>Yes</p> <p>Yes</p> <p>Yes</p>

Appearance	
Color / of the actuating element	red

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	100 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	60
Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value	75
Short-time withstand current (SCCR) / at 600 V / acc. to UL 508	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	
<ul style="list-style-type: none"> <li>maximum</li> <li>minimum</li> </ul>	1 12
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 (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	
<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	

- 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: 100 A

fuse gL/gG: 10 A

### Mechanical Design

Height	302 mm
Width	212 mm
Depth	181 mm
Mounting type	Complete unit in enclosure
Mounting type	
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> </ul>	No
<ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>	No
Net weight	1 894 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 DIN EN 81346-2</li> </ul>	SF

### General Product Approval

### Declaration of Conformity



CCC



CSA



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?mfb=3LD2766-0TB53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2766-0TB53>

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

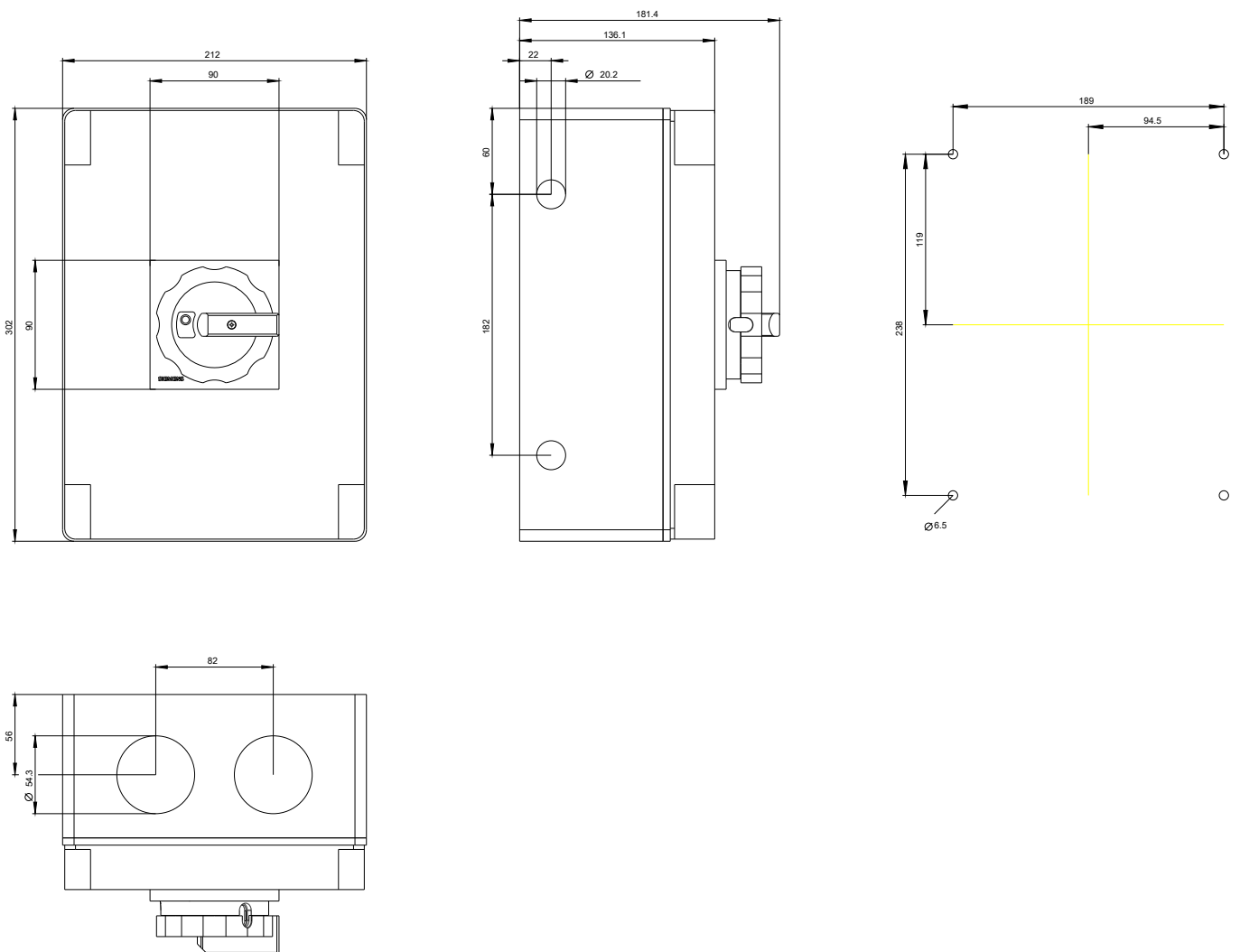
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3LD2766-0TB53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD2766-0TB53)

**CAX-Online-Generator**

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

**Tender specifications**

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



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