

SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 63 A, operating power / at AC-23 A 400 V: 22 kW, Molded plastic encapsulation for metric cable gland, 1 NC, 1 NO, 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
type of device	fixed mounting
type of switch	Molded-plastic enclosure for metric threaded joint
size of switch disconnecter	3
mechanical service life (switching cycles)	
• typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I <sub>2t</sub> value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	21 kA <sup>2</sup> .s
I <sub>let-through</sub> I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	21 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
operating current / at AC / rated value	63 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]	
<ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	4.5 W
<ul style="list-style-type: none"> <li>per conductor / typical</li> </ul>	4.5 W
Current	
operating current	
<ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> </ul>	22 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 400 V / rated value</li> </ul>	43 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 690 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-21 / at 690 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-21 A / at 240 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-21 A / at 440 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 240 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-22 A / at 440 V / rated value</li> </ul>	63 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 240 V / rated value</li> </ul>	43 A
<ul style="list-style-type: none"> <li>at AC-23 A / at 440 V / rated value</li> </ul>	43 A
operating current / of upstream fuse / rated value	63 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>	6 kA
<ul style="list-style-type: none"> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	6 kA
short-time withstand current (I <sub>cw</sub> )	
<ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> </ul>	1 260 A
<ul style="list-style-type: none"> <li>at 690 V / limited to 1 s / rated value</li> </ul>	1 260 A
Main circuit	
operating frequency	
<ul style="list-style-type: none"> <li>initial value</li> </ul>	50 Hz
<ul style="list-style-type: none"> <li>full-scale value</li> </ul>	60 Hz
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A / at 240 V / rated value</li> </ul>	11 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 400 V / at 50/60 Hz / rated value</li> </ul>	22 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 400 V / rated value</li> </ul>	22 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 440 V / rated value</li> </ul>	22 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> </ul>	18.5 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 240 V / rated value</li> </ul>	11 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 400 V / rated value</li> </ul>	18.5 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 690 V / rated value</li> </ul>	15 kW
operating current / rated value	63 A
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
• switch disconnecter	Yes
• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes

#### Appearance

color / of the actuating element	red
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#### 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
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	50 kA

#### according UL

operating 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	40
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	50
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	175 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"> <li>• maximum</li> <li>• minimum</li> </ul>	6 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 (2,5...35mm <sup>2</sup> ) 1x (2,5...16 mm <sup>2</sup> ) 1x (2,5...35mm <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> <li>• for auxiliary contacts</li> </ul>	box terminal connection terminals

## Requirements

design of the fuse link	
<ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit / required</li> <li>• for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 63 A fuse gL/gG: 10 A

## Mechanical Design

height	199 mm
width	146 mm
depth	149 mm
mounting type	Complete unit in enclosure

• mounting type / front mounting with 4-hole attachment	No
• mounting type / front mounting with central attachment	Yes
• mounting type / rail mounting	No
net weight	908 g

#### Environmental conditions

ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage / minimum	-25 °C

#### Certificates

reference code	
• acc. to DIN EN 61346-2	S
• acc. to DIN EN 81346-2	SF

#### General Product Approval

#### Declaration of Conformity



[Miscellaneous](#)



Test Certificates	Shipping Approval	other
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[Special Test Certificate](#)

[Miscellaneous](#)



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=3LD2565-1GP53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2565-1GP53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2565-1GP53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2565-1GP53)

**CAX-Online-Generator**

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

**Tender specifications**

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



