



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 4- pole, 25 A, operating power at AC-23 A at 400 V: 9.5 kW, molded-plastic encapsulation for metric cable gland, rotary operating mechanism, red/yellow

Model	
product brand name	SETRON
product designation	Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	Molded-plastic enclosure for metric threaded joint
design of the actuating element	Short rotary knob
color of the actuating element	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
number of poles note	PE
size of switch disconnecter	2
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
operating frequency maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage rated value	690 V
surge voltage resistance rated value	6 kV
operating voltage	
• at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
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	1.1 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	25 A
• at AC-21 A at 240 V rated value	25 A
• at AC-21 A at 400 V rated value	25 A
• at AC-21 A at 440 V rated value	25 A

<ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>	20 A
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A at 240 V rated value</li> </ul>	5 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>	10 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 440 V rated value</li> </ul>	9.5 kW
<ul style="list-style-type: none"> <li>at AC-23 A at 690 V rated value</li> </ul>	10 kW
<ul style="list-style-type: none"> <li>at AC-3 at 240 V rated value</li> </ul>	4 kW
<ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>	8 kW
<ul style="list-style-type: none"> <li>at AC-3 at 690 V rated value</li> </ul>	7.5 kW
<b>Auxiliary circuit</b>	
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
<b>Suitability</b>	
suitability for use	
<ul style="list-style-type: none"> <li>main switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>switch disconnecter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>safety switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>maintenance/repair switch</li> </ul>	Yes
<b>Product details</b>	
product feature can be locked into OFF position	Yes
<b>accessories</b>	
product extension optional	
<ul style="list-style-type: none"> <li>motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>voltage trigger</li> </ul>	No
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
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 ... 8 mm
<b>Short circuit</b>	
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
let-through current with closed switch	
<ul style="list-style-type: none"> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3.5 kA
<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>	4 kA
I <sup>2</sup> t value with closed switch	
<ul style="list-style-type: none"> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	4 kA <sup>2</sup> .s
<ul style="list-style-type: none"> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	4 kA <sup>2</sup> .s
<ul style="list-style-type: none"> <li>at 690 V for combination switch + gG fuse maximum</li> </ul>	4 kA <sup>2</sup> .s
design of the fuse link	
<ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit required</li> </ul>	fuse gL/gG: 25 A
<ul style="list-style-type: none"> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
operational current of upstream fuse rated value	25 A
<b>according UL</b>	
operational current at AC according to UL 508/UL 60947-4-1 rated value	25 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	10
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	15
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	50 A
type of fuse according to UL	RK5

### Connections

AWG number as coded connectable conductor cross section solid maximum	
<ul style="list-style-type: none"> <li>•</li> <li>•</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> <li>• for auxiliary contacts</li> </ul>	box terminal connection terminals

### Mechanical Design

height	152 mm
width	100 mm
depth	117 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
<ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul>	No Yes No
net weight	481 g

### Environmental conditions

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

### Approvals Certificates

#### General Product Approval



[Confirmation](#)



General Product Approval	Test Certificates	Marine / Shipping	other
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[Miscellaneous](#)



[Miscellaneous](#)



[Confirmation](#)

other	Environment
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[Miscellaneous](#)

[Environmental Confirmations](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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=3LD2164-1TC53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2164-1TC53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2164-1TC53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2164-1TC53)

CAX-Online-Generator

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

Tender specifications

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





