



switch disconnecter 3VA1 IEC frame 400 3-pole SD100, In=400A without overload protection w/o short-circuit protection nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
product version	General applications
design of the product	in MCCB design
number of poles	3
design of the auxiliary release	without
design of the auxiliary switch	Without
General technical data	
insulation voltage / rated value	800 V
operating voltage / at DC / rated value	750 V
operating voltage / at AC / rated value	690 V
surge voltage resistance / rated value	8 kV
power loss [W] / maximum	191 W
mechanical service life (operating cycles) / typical	20 000
type of device	fixed mounting
suitability for use / switch disconnecter	Yes
suitability for use / main switch	Yes
suitability for use / safety switch	Yes
suitability for use / EMERGENCY OFF switch	Yes
suitability for use / maintenance/repair switch	Yes
product function / communication function	No
Net Weight	4.805 kg
Current	
short-time withstand current (Icw) / at AC / limited to 0.5 s / rated value	6 kA
operational current / rated value	400 A
operational current <ul style="list-style-type: none"><li>• at 40 °C</li><li>• at 45 °C</li><li>• at 50 °C</li><li>• at 55 °C</li><li>• at 60 °C</li><li>• at 65 °C</li><li>• at 70 °C</li></ul>	<div>400 A</div> <div>400 A</div> <div>400 A</div> <div>384 A</div> <div>370 A</div> <div>354 A</div> <div>340 A</div>
let-through I2t value / at AC-23 B <ul style="list-style-type: none"><li>• at 400 V / maximum permissible</li><li>• at 500 V / maximum permissible</li><li>• at 690 V / maximum permissible</li></ul>	<div>3 820 000 A²·s</div> <div>4 280 000 A²·s</div> <div>1 780 000 A²·s</div>
let-through current (Ic) / at AC-23 B	

<ul style="list-style-type: none"> <li>• at 400 V / maximum permissible</li> <li>• at 500 V / maximum permissible</li> <li>• at 690 V / maximum permissible</li> </ul>	47 kA 41 kA 17 kA
<b>Switching capacity according to IEC 60947</b>	
<b>short-circuit current making capacity (I<sub>cm</sub>) / with line-side fuse protection</b>	
<ul style="list-style-type: none"> <li>• at 690 V / by molded case circuit breaker / maximum</li> <li>• at 415 V / by molded case circuit breaker / maximum</li> </ul>	17 kA 242 kA
conditional short-circuit current (I <sub>q</sub> ) / rated value	6 000 A
<b>conditional short-circuit current (I<sub>q</sub>) / with line-side fuse protection</b>	
<ul style="list-style-type: none"> <li>• at 690 V / by molded case circuit breaker / rated value</li> <li>• at 240 V / by LV HRC fuse link 3NA, 3ND (sizes 00/000, 1, 2, type gL/gG) / rated value</li> <li>• at 415 V / by LV HRC fuse link 3NA, 3ND (sizes 00/000, 1, 2, type gL/gG) / rated value</li> </ul>	10 kA 200 kA 110 kA
<b>Mechanical Design</b>	
overvoltage category	III
fastening method	screw fixing
fastening method / 4-hole front mounting	Yes
fastening method / front mounting with central attachment	No
fastening method / rail mounting	No
product component	
<ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• undervoltage release with leading contact</li> <li>• trip indicator</li> </ul>	No No No No
product feature / interlock	No
height	248 mm
width	138 mm
depth	110 mm
display version / for switch position indicator	Handle switch position On, Trip, Off
design of the actuating element	toggle handle
type of the driving mechanism / motor drive	No
<b>Connections</b>	
arrangement of electrical connectors / for main current circuit	Front terminal
type of electrical connection / for main current circuit	busbar connection
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Silver
<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
<b>Accessories</b>	
product extension / auxiliary switch	Yes
product extension / optional / motor drive	Yes
<b>Environmental conditions</b>	
protection class IP / on the front	IP40
ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	-25 °C 70 °C -40 °C 80 °C
<b>Environmental footprint</b>	
global warming potential [CO <sub>2</sub> eq] / total	473 kg
global warming potential [CO <sub>2</sub> eq] / during manufacturing	23.9 kg
global warming potential [CO <sub>2</sub> eq] / during operation	450 kg
global warming potential [CO <sub>2</sub> eq] / after end of life	-2.9 kg
<b>reference code / according to IEC 81346-2</b>	Q
<b>Approvals / Certificates</b>	

## General Product Approval



[Miscellaneous](#)



### EMV

### Test Certificates

### Maritime application



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



### Maritime application

### other



[Confirmation](#)

[Miscellaneous](#)

## Environment



[Environmental Confirmations](#)

[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=3VA1340-1AA32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1340-1AA32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1340-1AA32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1340-1AA32-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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





