



Figure similar

SWITCH DISCONNECTOR 3VA1 IEC FRAME 160 4-POLE SD100, IN=100A WITHOUT OVERLOAD PROTECTION WITHOUT SHORT CIRCUIT PROT. BUSBAR CONNECTION

Model		
product brand name		SENTRON
Product designation		Switch disconnecter
Design of the product		in MCCB design
Product variations		General applications
Design of the operating mechanism		toggle handle
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		4
Type of device		fixed mounting
power factor cos phi / in utilization category / AC-22 A / at 400 V		0.8
circuit-breaker / Design		3VA
Mechanical service life (switching cycles) / typical		15 000
Equipment marking / acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		Q
Overvoltage category		IV
Voltage		
Insulation voltage / Rated value	V	800
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		IP40
Protection class IP / on the front		IP40
Dissipation		

<b>Active power loss</b>		
• maximum	W	30
<b>Electricity</b>		
<b>Continuous current</b>		
• Rated value	A	100
• at 40 °C / Rated value	A	100
• at 45 °C / Rated value	A	100
• at 50 °C / Rated value	A	100
• at 55 °C / Rated value	A	100
• at 60 °C / Rated value	A	100
• at 65 °C / Rated value	A	100
• at 70 °C / Rated value	A	100
<b>Short-time current resistance (I<sub>cw</sub>)</b>		
• restricted to 0.5 s / Rated value	kA	2
• limited to 1 s / Rated value	kA	2
<b>Main circuit</b>		
<b>Operating power</b>		
• at AC-23 A / at 400 V / at 50/60 Hz / Rated value	kW	68
• at AC-3 / at 400 V / Rated value	kW	68
<b>Operating voltage</b>		
• with AC / at 50/60 Hz / Rated value	V	690
• for DC / Rated value	V	600
<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>Suitability</b>		
<b>Suitability for use</b>		
• Main switch		Yes
• switch disconnecter		Yes
• EMERGENCY OFF switch		Yes
• safety switch		Yes
• maintenance/repair switch		Yes
<b>Product details</b>		
Product feature / interlock		No
<b>Product component</b>		
• Trip indicator		No
• Voltage trigger		No
• undervoltage release		No

<ul style="list-style-type: none"> <li>• undervoltage release with leading contact</li> </ul>		No
<b>Product expansion</b>		
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• optional <ul style="list-style-type: none"> <li>— motor drive</li> <li>— Voltage trigger</li> </ul> </li> </ul>		Yes Yes
<b>Product function</b>		
Product function / communication function		No
<b>Display and operation</b>		
Display version / for switch position indicator		Yes
<b>Short circuit</b>		
Conditional short-circuit current (I <sub>q</sub> ) / Rated value	A	2 000
<b>Connections</b>		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of electrical connection / for main current circuit		busbar connection
<b>Mechanical Design</b>		
<b>Height</b>	mm	130
<b>Width</b>	mm	101.6
<b>Depth</b>	mm	70
<b>mounting position</b>		any
<b>Mounting type</b>		screw fixing
<b>Mounting type</b>		
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> </ul>		Yes
<ul style="list-style-type: none"> <li>• front mounting with central attachment</li> </ul>		No
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>		No
<b>Net weight</b>	g	1 100
<b>Environmental conditions</b>		
<b>Ambient temperature</b>		
<ul style="list-style-type: none"> <li>• during operation / minimum</li> </ul>	°C	-25
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	°C	70
<ul style="list-style-type: none"> <li>• during storage / minimum</li> </ul>	°C	-40
<ul style="list-style-type: none"> <li>• during storage / maximum</li> </ul>	°C	80
<b>Certificates</b>		
Equipment marking / acc. to DIN EN 61346-2		Q

General Product Approval	EMC	Declaration of Conformity	Shipping Approval
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Shipping Approval	<a href="#">other</a>
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## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11101AA420AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA11101AA420AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA11101AA420AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA11101AA420AA0)

### CAX-Online-Generator

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

### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



**last modified:**

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