



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000, 160 A, for Rittal busbar system 60 mm, box terminal, Cover level 32/70 mm

Model	
product brand name	SENTRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 32/70 mm
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	Without
design of the actuating element	Cover handle
design of the load switch strip form	No
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
type of device	For Rittal 60 mm busbar system
size of disconnecting link	000
size of fuse link	NH000
let-through current with closed switch maximum permissible	15 kA
mechanical service life (operating cycles) typical	2 000
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.45
• with capacitive load	-0.25
fuse system	LV HRC fuse
degree of pollution	3
Voltage	
insulation voltage	
• rated value	690 V
• with degree of pollution 3 at AC rated value	690 V
• with degree of pollution 2 at AC rated value	1 000 V
power factor at AC-21 B	0.95
surge voltage resistance rated value	8 kV
operating voltage	
• at AC rated value maximum	690 V
• at DC rated value	440 V
• at DC rated value maximum	440 V
Protection class	
protection class IP	
• with closed switch with cover or cable lug cover	IP40
• with closed switch without cover or cable lug cover	IP30
• open	IP20
• on the front	IP40
Dissipation	

power loss [W]	
<ul style="list-style-type: none"> <li>with conventional rated thermal current without fuse per pole</li> </ul>	5 W
<ul style="list-style-type: none"> <li>with conventional rated thermal current without fuse per device</li> </ul>	15 W
<ul style="list-style-type: none"> <li>for rated value of the current at AC in hot operating state per pole</li> </ul>	14 W
<ul style="list-style-type: none"> <li>of the fuse per fuse maximum</li> </ul>	9 W

#### Main circuit

operational current	
<ul style="list-style-type: none"> <li>rated value</li> </ul>	125 A
<ul style="list-style-type: none"> <li>with capacitive load at 400 V rated value</li> </ul>	72 A
<ul style="list-style-type: none"> <li>with capacitive load at 500 V rated value</li> </ul>	55 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

#### Suitability

suitability for use	
<ul style="list-style-type: none"> <li>main switch</li> </ul>	No
<ul style="list-style-type: none"> <li>switch disconnect</li> </ul>	Yes
<ul style="list-style-type: none"> <li>EMERGENCY OFF switch</li> </ul>	No
<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

#### Product details

product component	
<ul style="list-style-type: none"> <li>trip indicator</li> </ul>	No
<ul style="list-style-type: none"> <li>undervoltage release</li> </ul>	No
<ul style="list-style-type: none"> <li>undervoltage release with leading contact</li> </ul>	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
<ul style="list-style-type: none"> <li>locking capability</li> </ul>	Yes
<ul style="list-style-type: none"> <li>motor drive</li> </ul>	No
<ul style="list-style-type: none"> <li>phase failure monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>fuse monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>voltage trigger</li> </ul>	No
<ul style="list-style-type: none"> <li>overvoltage protection monitoring</li> </ul>	Yes

#### Product function

product function	
<ul style="list-style-type: none"> <li>fuse monitoring</li> </ul>	No
<ul style="list-style-type: none"> <li>overvoltage protection monitoring</li> </ul>	No

#### Connections

arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> <li>solid or stranded minimum</li> </ul>	1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>solid or stranded maximum</li> </ul>	50 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded with core end processing minimum</li> </ul>	1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>finely stranded with core end processing maximum</li> </ul>	35 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>stranded minimum</li> </ul>	1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>stranded maximum</li> </ul>	50 mm <sup>2</sup>
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> <li>minimum</li> </ul>	3.5 N·m
<ul style="list-style-type: none"> <li>maximum</li> </ul>	4 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	8 x 8 mm
type of connection technology	Box terminal
type of electrical connection for main current circuit	box terminal

#### Mechanical Design

height	210.4 mm
width	88.8 mm
depth	124.6 mm

fastening method	busbar
fastening method	No
• floor mounting	No
• 4-hole front mounting	No
• front mounting with central attachment	Yes
• rail mounting	horizontal/vertical
mounting position	60 mm
busbar center-to-center spacing	0.82 kg
net weight	

### Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

<b>General Product Approval</b>	<b>Declaration of Conformity</b>
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[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



[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=3NP1123-1JC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1JC20>

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

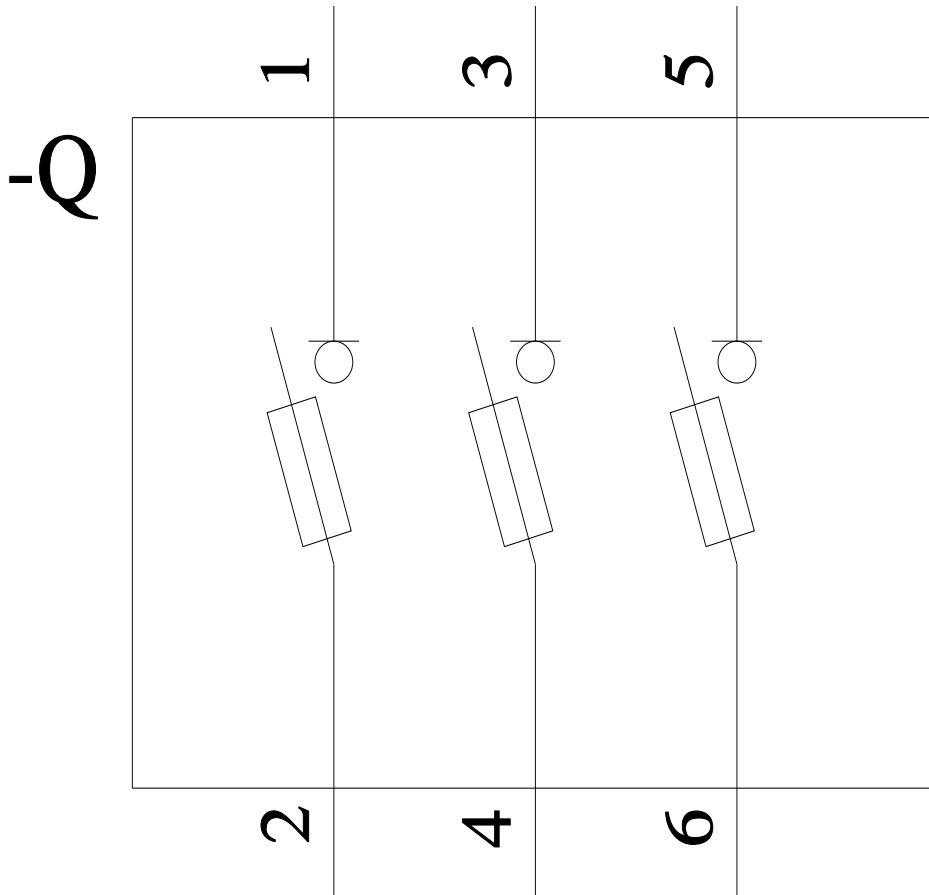
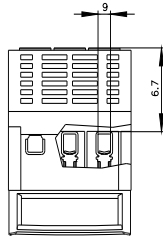
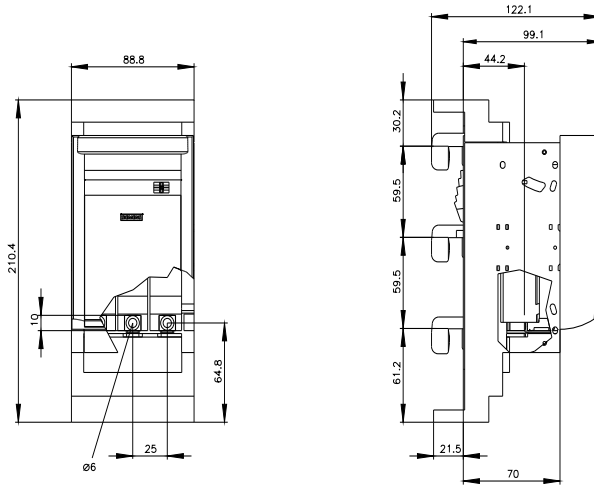
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1123-1JC20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1123-1JC20)

**CAX-Online-Generator**

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

**Tender specifications**

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



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