

SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, Cover level 45 mm



Model	
Product brand name	SENTRON
Product designation	3NP1 fuse switch disconnecter
Design of the product	cover level 45 mm
Design of the safety monitoring	Without
Design of the operating mechanism	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 assembly and installation on mounting plate
Size of disconnecting link	0
Size of fuse link	NH000
Continuous current / at 35 °C / rated value	160 A
Let-through current / with closed switch / maximum permissible	15 kA
cut-off value $I^{**2}t_{max}$ / 500 V	56 000 A <sup>2</sup> ·s
Power factor	
• at AC-22 B	0.65

<ul style="list-style-type: none"> <li>• at AC-23 B</li> </ul>	0.45
<ul style="list-style-type: none"> <li>• with capacitive load</li> </ul>	-0.25
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	2 000
Fuse system	LV HRC fuse

### Voltage

Insulation voltage / rated value	690 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV

### Protection class

Protection class IP	
<ul style="list-style-type: none"> <li>• with closed switch / with cover or cable lug cover</li> </ul>	IP40
<ul style="list-style-type: none"> <li>• with closed switch / without cover or cable lug cover</li> </ul>	IP30
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP40
<ul style="list-style-type: none"> <li>• open</li> </ul>	IP20

### Electricity

Continuous current	
<ul style="list-style-type: none"> <li>• rated value</li> </ul>	100 A
<ul style="list-style-type: none"> <li>• at 40 °C / rated value</li> </ul>	150 A
<ul style="list-style-type: none"> <li>• at 45 °C / rated value</li> </ul>	140 A
<ul style="list-style-type: none"> <li>• at 50 °C / rated value</li> </ul>	130 A
<ul style="list-style-type: none"> <li>• at 55 °C / rated value</li> </ul>	120 A
Let-through current / with high-speed activation / maximum permissible	10 kA
Let-through current / I <sub>c</sub> / maximum permissible	
<ul style="list-style-type: none"> <li>• 400 V</li> </ul>	15 000 A
<ul style="list-style-type: none"> <li>• 500V</li> </ul>	15 000 A
cut-off value I <sup>2</sup> t <sub>max</sub> / 400 V	56 000 A <sup>2</sup> ·s

### Main circuit

Operating voltage	
<ul style="list-style-type: none"> <li>• at AC / rated value / maximum</li> </ul>	690 V
<ul style="list-style-type: none"> <li>• at DC / rated value</li> </ul>	440 V
<ul style="list-style-type: none"> <li>• at DC / rated value / maximum</li> </ul>	440 V
Operating current / with capacitive load	
<ul style="list-style-type: none"> <li>• at 400 V / maximum</li> </ul>	72 A
<ul style="list-style-type: none"> <li>• at 500 V / maximum</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
<b>Suitability</b>	
<b>Suitability for use</b>	
• Main switch	No
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes
<b>Product details</b>	
Product feature / interlock	Yes
Product component	
• Trip indicator	No
• Phase failure monitoring	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product feature / sealable	Yes
Product extension	
• Auxiliary switch	Yes
• optional	
— locking capability	Yes
— motor drive	No
— Phase failure monitoring	Yes
— fuse monitoring	Yes
— Voltage trigger	No
— Overvoltage protection monitoring	Yes
<b>Product function</b>	
Product function	
• fuse monitoring	No
• Overvoltage protection monitoring	No
<b>Short circuit</b>	
Conditional short-circuit current (I <sub>q</sub> )	
• rated value	80 kA
• at AC / at 500 V / with high-speed activation / rated value	80 kA
• at AC / at 690 V / with high-speed activation / rated value	80 kA
• with closed switch / at AC / at 500 V / rated value	120 kA
• with closed switch / at AC / at 690 V / rated value	120 kA

## Connections

Arrangement of electrical connectors / for main current circuit	other
Connectable conductor cross-section / for main contacts	
<ul style="list-style-type: none"> <li>• single or multi-stranded / minimum</li> </ul>	1.5 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• single or multi-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 electrical connection / for main current circuit	box terminal

## Mechanical Design

Height	141.7 mm
Width	88.8 mm
Depth	76.6 mm
Mounting position	horizontal/vertical
Mounting type	mounting plate
Mounting type	
<ul style="list-style-type: none"> <li>• floor mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• front mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• front mounting with 4-hole attachment</li> </ul>	No
<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
Net weight	0.47 kg

## Environmental conditions

Degree of pollution	3
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> </ul>	-25 °C
<ul style="list-style-type: none"> <li>• during operation / maximum</li> </ul>	55 °C
<ul style="list-style-type: none"> <li>• during storage / minimum</li> </ul>	-50 °C
<ul style="list-style-type: none"> <li>• during storage / maximum</li> </ul>	80 °C

## Certificates

Reference code	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	Q

General Product Approval	Declaration of Conformity	Test Certificates
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CCC



UR



VDE

[Miscellaneous](#)



EG-Konf.

[Type Test Certificates/Test Report](#)

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



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## 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=3NP1123-1CA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1CA20>

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

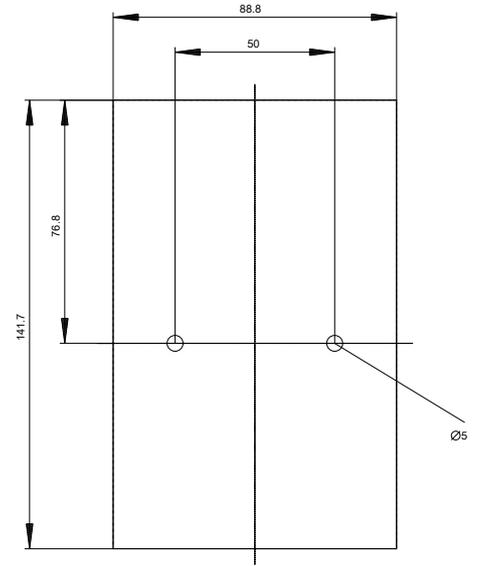
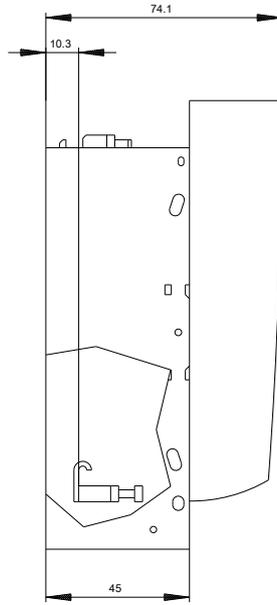
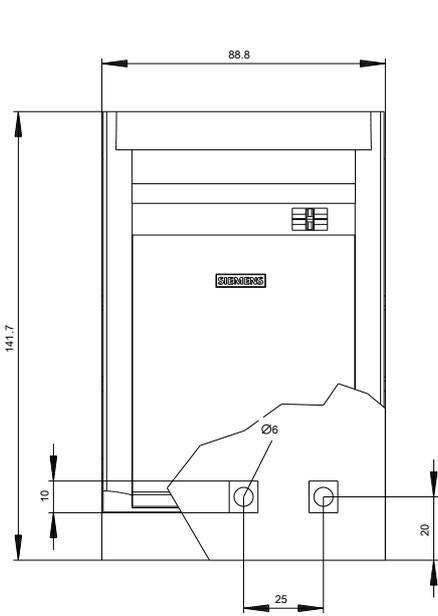
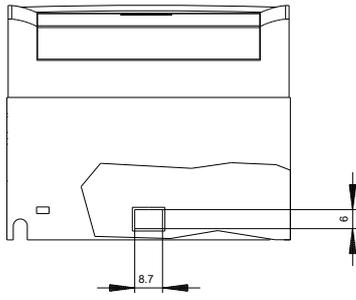
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1123-1CA20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1123-1CA20)

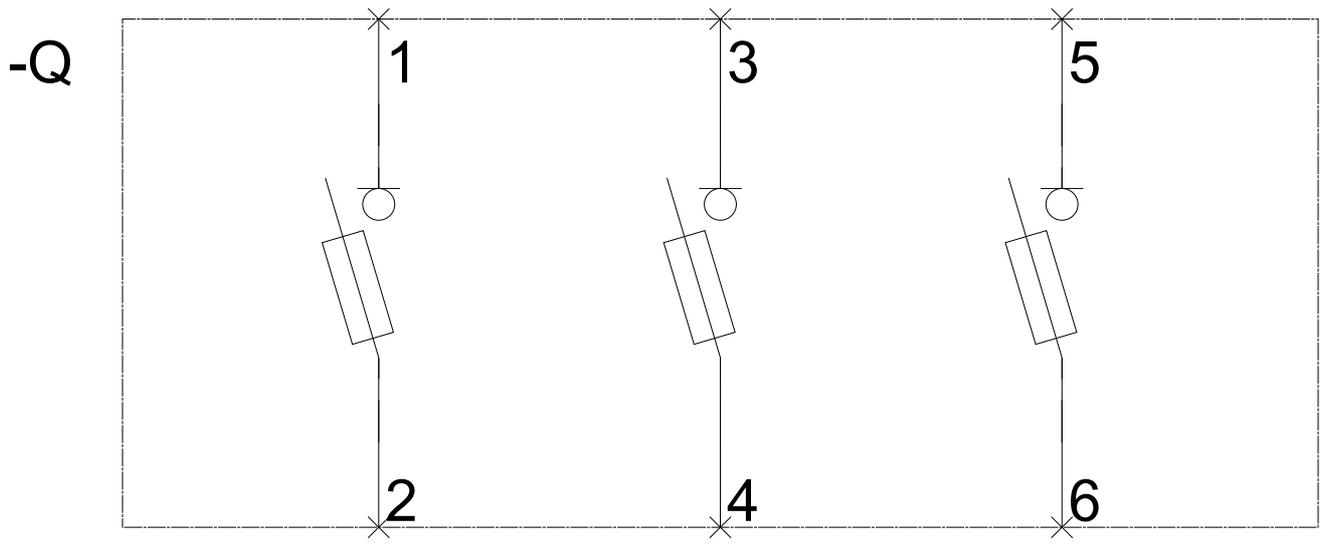
### CAX-Online-Generator

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

### Tender specifications

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





**-CB**

