



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH00, 160 A, for Busbar system 8US 60 mm, Box terminal, Fuse monitoring: electromechanical, Cover level 32/70 mm

Model	
product designation	3NP1 fuse switch disconnecter
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	electro mechanical
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 60 mm 8US busbar system
size of disconnecting link	00 and 000
size of fuse link	NH000, NH00
let-through current with closed switch maximum	23 kA
mechanical service life (operating cycles) typical	2 000
I <sup>2</sup> t value with closed switch maximum	223 kA <sup>2</sup> .s
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
operational current	
• at 35 °C rated value	160 A
• at 40 °C rated value	155 A
• at 45 °C rated value	145 A
• at 50 °C rated value	140 A
• at 55 °C rated value	133 A
• at AC-21 B at 240 V rated value	160 A
• at AC-21 B at 400 V rated value	160 A
• at AC-21 B at 500 V rated value	160 A
• at AC-21 B at 690 V rated value	160 A
• at AC-22 B at 240 V rated value	160 A
• at AC-22 B at 400 V rated value	160 A
• at AC-22 B at 500 V rated value	160 A

<ul style="list-style-type: none"> <li>• at AC-22 B at 690 V rated value</li> <li>• at AC-23 B at 690 V rated value</li> <li>• at AC-23 B at 500 V rated value</li> <li>• at AC-23 B at 400 V rated value</li> <li>• at AC-23 B at 240 V rated value</li> <li>• at DC-21 B at 120 V rated value</li> <li>• at DC-21 B at 240 V rated value</li> <li>• at DC-21 B at 440 V rated value</li> <li>• at DC-22 B at 120 V rated value</li> <li>• at DC-22 B at 240 V rated value</li> <li>• at DC-22 B at 440 V rated value</li> <li>• at DC-23 B at 120 V rated value</li> <li>• at DC-23 B at 240 V rated value</li> <li>• at DC-23 B at 440 V rated value</li> </ul>	125 A 35 A 63 A 160 A 160 A 160 A 160 A 160 A 160 A 160 A 125 A 100 A 100 A 63 A
let-through current with high-speed activation maximum permissible	15 kA
operating voltage	
<ul style="list-style-type: none"> <li>• at AC rated value minimum</li> <li>• at AC rated value maximum</li> <li>• at DC rated value</li> <li>• at DC rated value minimum</li> <li>• at DC rated value maximum</li> </ul>	24 V 690 V 240 V 24 V 250 V
<b>Protection class</b>	
protection class IP	
<ul style="list-style-type: none"> <li>• with closed switch with cover or cable lug cover</li> <li>• with closed switch without cover or cable lug cover</li> <li>• open</li> </ul>	IP40 IP30 IP20
<b>Dissipation</b>	
power loss [W]	
<ul style="list-style-type: none"> <li>• with conventional rated thermal current without fuse per pole</li> <li>• with conventional rated thermal current without fuse per device</li> <li>• for rated value of the current at AC in hot operating state per pole</li> <li>• of the fuse per fuse maximum</li> </ul>	5 W 15 W 17 W 12 W
<b>Main circuit</b>	
operational current	
<ul style="list-style-type: none"> <li>• rated value</li> <li>• with capacitive load at 400 V rated value</li> <li>• with capacitive load at 500 V rated value</li> </ul>	160 A 72 A 55 A
<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>	
suitability for use	
<ul style="list-style-type: none"> <li>• main switch</li> <li>• switch disconnecter</li> <li>• EMERGENCY OFF switch</li> <li>• safety switch</li> <li>• maintenance/repair switch</li> </ul>	No Yes No Yes Yes
<b>Product details</b>	
product component	
<ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• undervoltage release with leading contact</li> </ul>	No No
product feature sealable	Yes
product extension auxiliary switch	Yes
<b>product extension optional</b>	
<ul style="list-style-type: none"> <li>• locking capability</li> <li>• phase failure monitoring</li> <li>• voltage trigger</li> </ul>	Yes Yes No

• overvoltage protection monitoring	Yes
<b>Product function</b>	
product function overvoltage protection monitoring	No
<b>Connections</b>	
arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
• solid or stranded minimum	6 mm <sup>2</sup>
• solid or stranded maximum	70 mm <sup>2</sup>
• finely stranded with core end processing minimum	6 mm <sup>2</sup>
• finely stranded with core end processing maximum	50 mm <sup>2</sup>
• stranded minimum	6 mm <sup>2</sup>
• stranded maximum	70 mm <sup>2</sup>
tightening torque with screw-type terminals	
• minimum	10 N·m
• maximum	10 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	9 x 12 mm
type of connection technology	Box terminal

<b>Mechanical Design</b>	
height	206.2 mm
width	105.8 mm
width of the busbar	
• minimum	12 mm
• maximum	30 mm
depth	216.5 mm
fastening method	busbar
fastening method	
• floor mounting	No
• rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
net weight	1.42 kg

<b>Environmental conditions</b>	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

<b>Certificates</b>	
reference code according to IEC 81346-2	Q

<b>Approvals Certificates</b>	
<b>General Product Approval</b>	

[Confirmation](#)



EG-Konf.



CCC



UR



VDE

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



[Type Test Certificates/Test Report](#)



DNV



URS

[Confirmation](#)

<b>other</b>	<b>Environment</b>
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[Miscellaneous](#)

[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=3NP1133-1BC21>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1BC21>

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

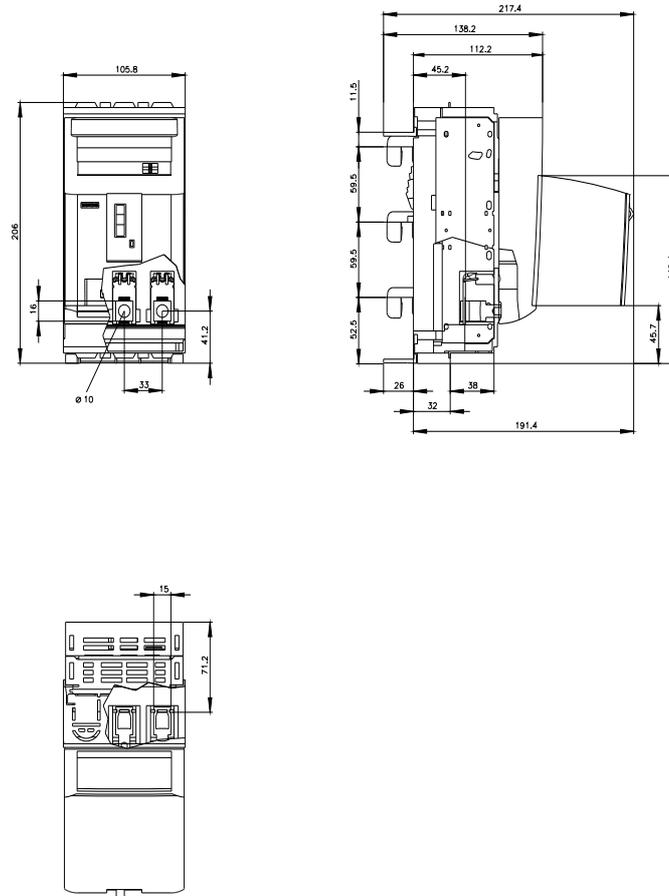
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1133-1BC21](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1BC21)

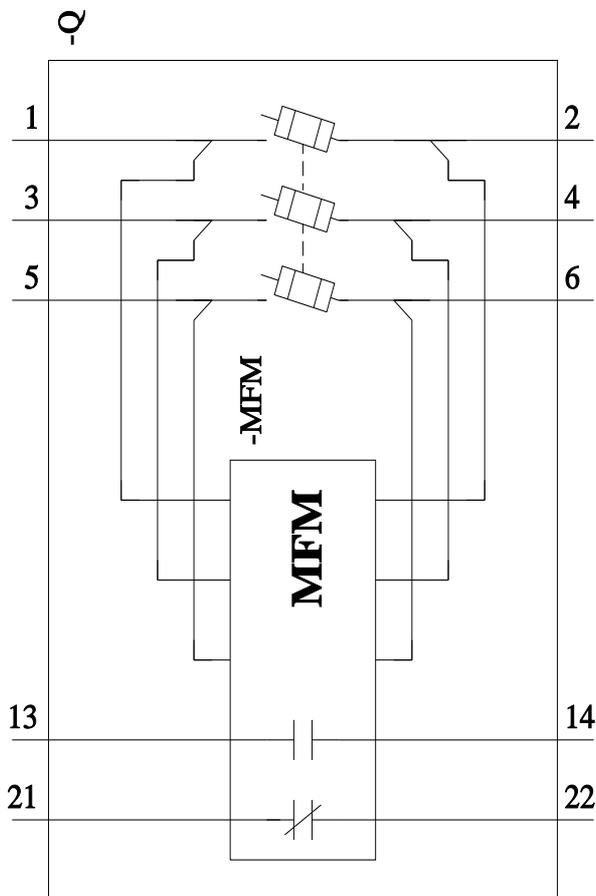
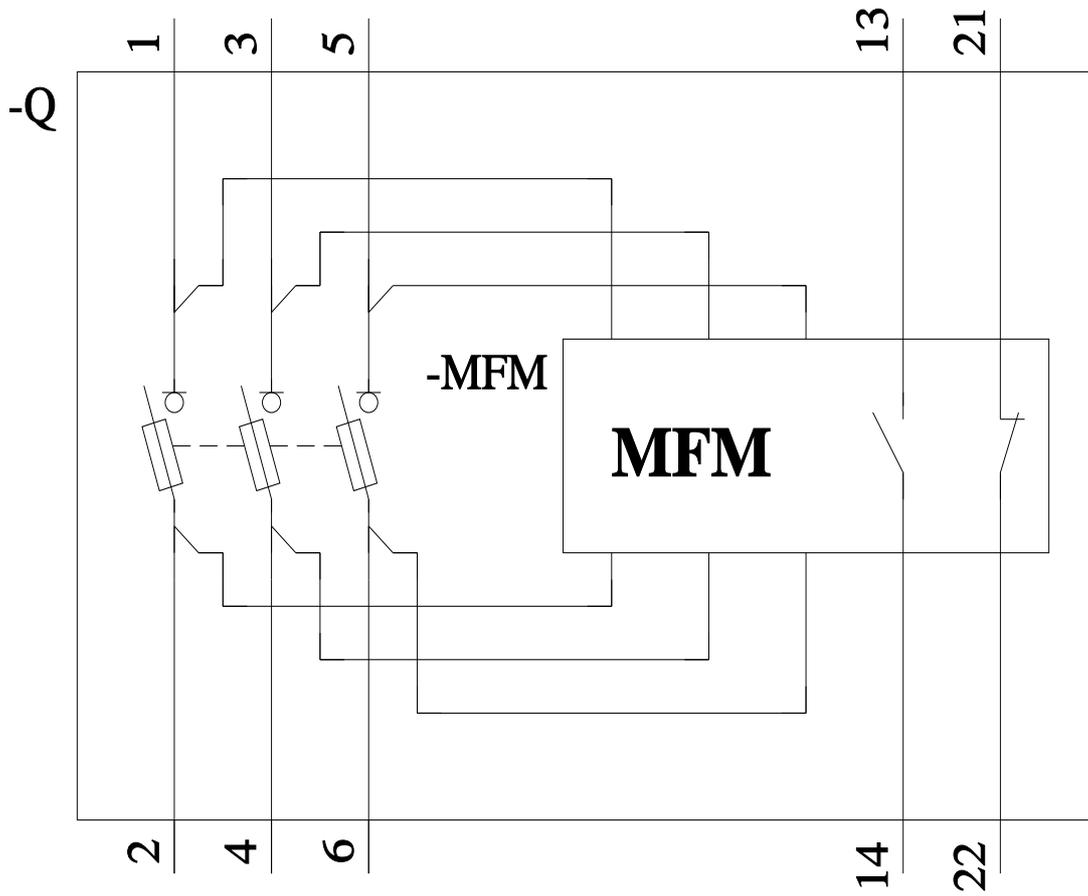
### CAX-Online-Generator

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

### Tender specifications

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





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