



SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH00, 160 A, for Rittal busbar system 40 mm, flat terminal, Fuse monitoring: electronic EFM10, Cover level 32/70 mm

Model	
product designation	Fuse switch disconnecter
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	electronic EFM 10
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 40 mm 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	2
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> </ul>	125 A 35 A 63 A 160 A 160 A
<b>let-through current with high-speed activation maximum permissible</b>	15 kA
<b>operating voltage</b> <ul style="list-style-type: none"> <li>• at AC rated value minimum</li> <li>• at AC rated value maximum</li> </ul>	230 V 690 V
<b>Protection class</b>	
<b>protection class IP</b> <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>	
<b>power loss [W]</b> <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>	
<b>operational current</b> <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 main switch	No
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
<b>Product details</b>	
product function phase failure monitoring	No
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> <li>• overvoltage protection monitoring</li> </ul>	Yes Yes No Yes
<b>Product function</b>	
product function overvoltage protection monitoring	No
<b>Short circuit</b>	
<b>conditional short-circuit current (I<sub>q</sub>)</b> <ul style="list-style-type: none"> <li>• at AC at 240 V with high-speed activation rated value</li> <li>• at AC at 500 V with high-speed activation rated value</li> <li>• at AC at 690 V with high-speed activation rated value</li> <li>• with closed switch at AC at 240 V rated value</li> <li>• with closed switch at AC at 500 V rated value</li> <li>• with closed switch at AC at 690 V rated value</li> </ul>	80 kA 80 kA 50 kA 120 kA 120 kA 100 kA

Connections	
arrangement of electrical connectors for main current circuit	other
<b>connectable conductor cross-section for main contacts</b>	
• solid or stranded minimum	2.5 mm <sup>2</sup>
• solid or stranded maximum	95 mm <sup>2</sup>
• stranded minimum	2.5 mm <sup>2</sup>
• stranded maximum	95 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	10 N·m
• maximum	12 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	24 x 12 mm
<b>type of connection technology</b>	Flat terminal

Mechanical Design	
<b>height</b>	215.1 mm
<b>width</b>	105.8 mm
<b>width of the busbar</b>	
• minimum	12 mm
• maximum	15 mm
<b>depth</b>	174.4 mm
<b>fastening method</b>	busbar
<b>fastening method</b>	
• floor mounting	No
• rail mounting	Yes
<b>mounting position</b>	horizontal/vertical
<b>busbar center-to-center spacing</b>	40 mm
<b>net weight</b>	1.12 kg

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

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

Approvals Certificates	
General Product Approval	



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

Environment	
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[Environmental Confirmations](#)

[Environmental Confirmations](#)

Further information
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**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=3NP1133-1JB12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1JB12>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1133-1JB12](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1JB12)

**CAX-Online-Generator**

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

**Tender specifications**

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





