

SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH3, 630 A, for assembly and installation on mounting plate, flat terminal, Fuse monitoring: electronic EFM20, Cover level 70 mm

Model	
product designation	Fuse switch disconnecter
design of the safety monitoring	electronic EFM 20
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	3 and 2
size of fuse link	NH2, NH3
let-through current with closed switch maximum	60 kA
mechanical service life (operating cycles) typical	1 000
I <sup>2</sup> t value with closed switch maximum	5 400 kA <sup>2</sup> .s
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.35
• 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	630 A
• at 40 °C rated value	610 A
• at 45 °C rated value	575 A
• at 50 °C rated value	555 A
• at 55 °C rated value	530 A
• at AC-21 B at 240 V rated value	630 A
• at AC-21 B at 400 V rated value	630 A
• at AC-21 B at 500 V rated value	630 A
• at AC-21 B at 690 V rated value	630 A
• at AC-22 B at 240 V rated value	630 A
• at AC-22 B at 400 V rated value	630 A
• at AC-22 B at 500 V rated value	630 A
• at AC-22 B at 690 V rated value	500 A

<ul style="list-style-type: none"> <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>	200 A 500 A 630 A 630 A
<b>let-through current with high-speed activation maximum permissible</b>	50 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>	30 W 90 W 78 W 48 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>	630 A 72 A 55 A
<b>Auxiliary circuit</b>	
number of CO contacts for auxiliary contacts	0
<b>number of NC contacts for auxiliary contacts</b>	0
<b>number of NO contacts for auxiliary contacts</b>	0
<b>Suitability</b>	
<b>suitability for use main switch</b>	No
<b>suitability for use switch disconnecter</b>	Yes
<b>suitability for use EMERGENCY OFF switch</b>	No
<b>suitability for use safety switch</b>	Yes
<b>suitability for use maintenance/repair switch</b>	Yes
<b>Product details</b>	
product function phase failure monitoring	Yes
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>• voltage trigger</li> </ul>	Yes No
<b>Product function</b>	
product function overvoltage protection monitoring	Yes
<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>	50 kA 50 kA 50 kA 100 kA 100 kA 100 kA
<b>Connections</b>	
arrangement of electrical connectors for main current circuit	other
<b>connectable conductor cross-section for main contacts</b>	

<ul style="list-style-type: none"> <li>• solid or stranded minimum</li> <li>• solid or stranded maximum</li> <li>• stranded minimum</li> <li>• stranded maximum</li> </ul>	120 mm <sup>2</sup> 300 mm <sup>2</sup> 120 mm <sup>2</sup> 300 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	10 N·m 12 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	40 x 18 mm
<b>type of connection technology</b>	Flat terminal

#### Mechanical Design

<b>height</b>	306 mm
<b>width</b>	249.4 mm
<b>depth</b>	169.7 mm
<b>fastening method</b>	mounting plate
<b>fastening method</b>	
<ul style="list-style-type: none"> <li>• floor mounting</li> <li>• rail mounting</li> </ul>	Yes No
<b>mounting position</b>	horizontal/vertical
<b>net weight</b>	4.77 kg

#### Environmental conditions

<b>ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-25 °C 55 °C
<b>ambient temperature during storage</b>	
<ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>	-50 °C 80 °C

#### Certificates

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

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



<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](#)



[Miscellaneous](#)

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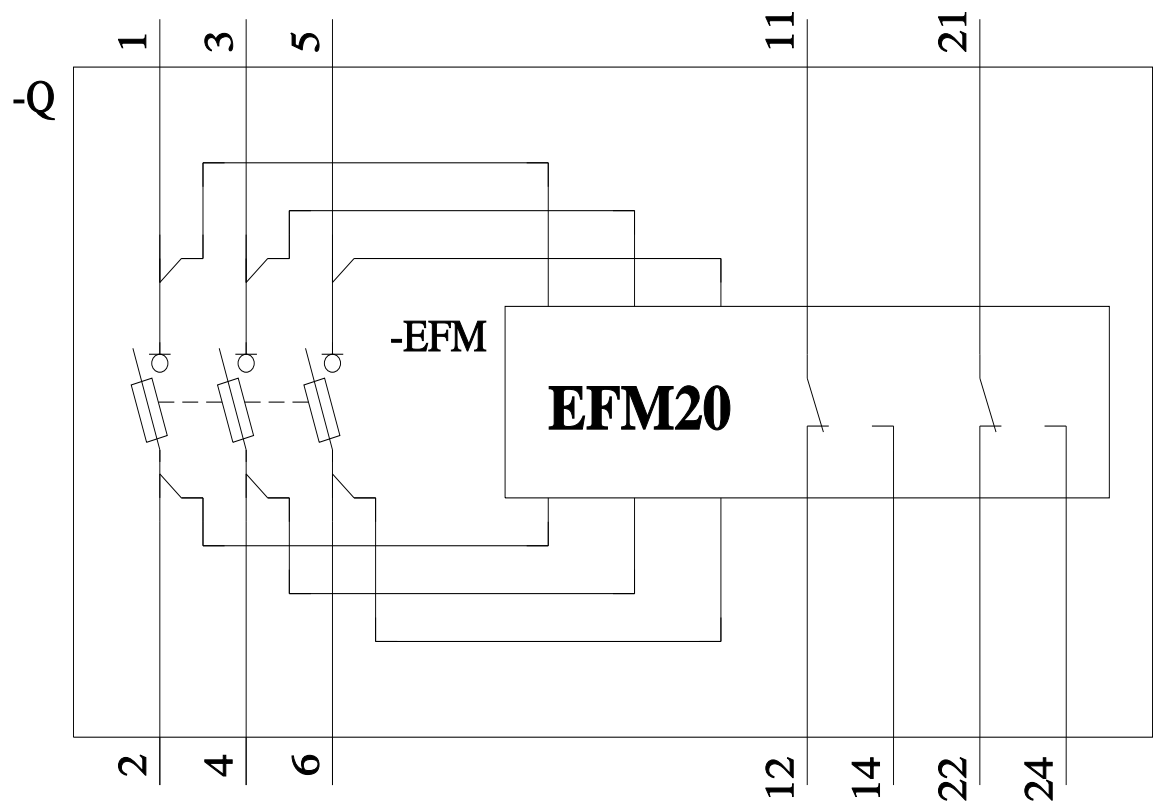
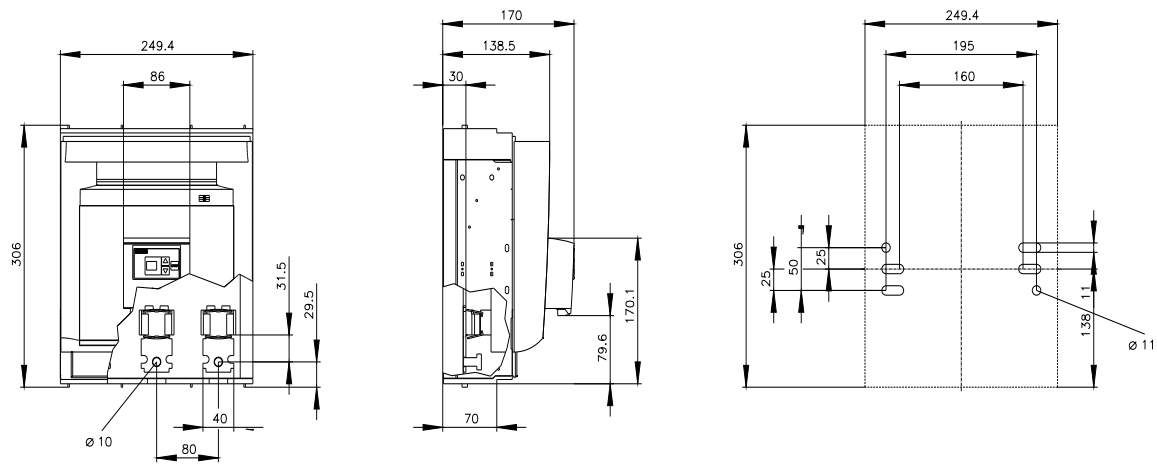
[Confirmation](#)

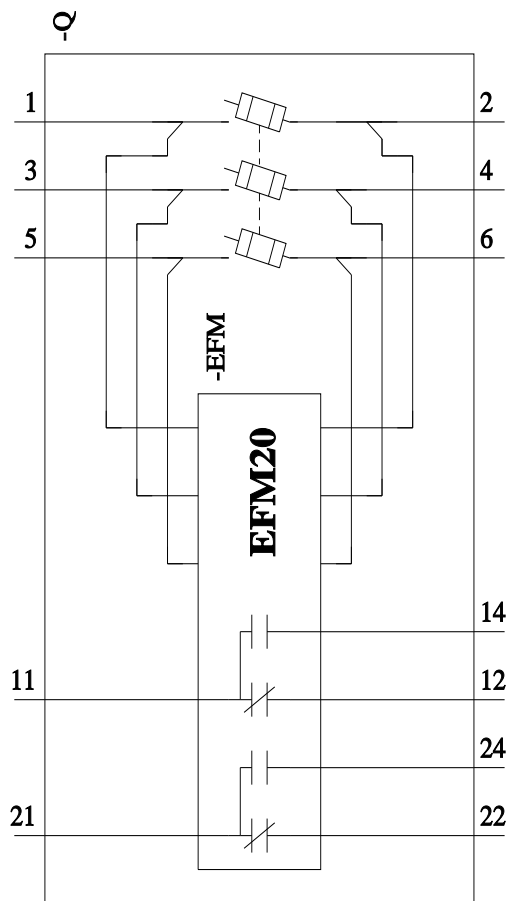
[Environmental Confirmations](#)

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#### 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=3NP1163-1DA13>  
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)  
<https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1DA13>  
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1163-1DA13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1DA13)  
CAx-Online-Generator





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