



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH2, 400 A, for Busbar system 8US 60 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 60 mm 8US busbar system
size of disconnecting link	2 and 1
size of fuse link	NH1, NH2
let-through current with closed switch maximum	40 kA
mechanical service life (operating cycles) typical	1 000
I <sup>2</sup> t value with closed switch maximum	2 150 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	400 A
— at 40 °C rated value	400 A
— at 45 °C rated value	392 A
— at 50 °C rated value	372 A
— at 55 °C rated value	356 A
• operational current	
— at AC-21 B at 240 V rated value	400 A
— at AC-21 B at 400 V rated value	400 A
— at AC-21 B at 500 V rated value	400 A
— at AC-21 B at 690 V rated value	400 A

— at AC-22 B at 240 V rated value	400 A
— at AC-22 B at 400 V rated value	400 A
— at AC-22 B at 500 V rated value	400 A
— at AC-22 B at 690 V rated value	400 A
— at AC-23 B at 690 V rated value	125 A
— at AC-23 B at 500 V rated value	315 A
— at AC-23 B at 400 V rated value	400 A
— at AC-23 B at 240 V rated value	400 A
<b>let-through current with high-speed activation maximum permissible</b>	40 kA
<b>operating voltage</b>	
• at AC rated value minimum	230 V
• at AC rated value maximum	690 V
<b>Protection class</b>	
<b>protection class IP</b>	
• with closed switch with cover or cable lug cover	IP40
• with closed switch without cover or cable lug cover	IP30
• open	IP20
<b>Dissipation</b>	
<b>power loss [W]</b>	
• with conventional rated thermal current without fuse per pole	14 W
• with conventional rated thermal current without fuse per device	42 W
• for rated value of the current at AC in hot operating state per pole	16.8 W
• of the fuse per fuse maximum	34 W
<b>Main circuit</b>	
<b>operational current</b>	
• rated value	400 A
• with capacitive load at 400 V rated value	72 A
• with capacitive load at 500 V rated value	55 A
<b>Auxiliary circuit</b>	
<b>number of CO contacts for auxiliary contacts</b>	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>	
<b>product function phase failure monitoring</b>	No
<b>product component</b>	
• undervoltage release	No
• undervoltage release with leading contact	No
<b>product feature sealable</b>	Yes
<b>product extension auxiliary switch</b>	Yes
<b>product extension optional locking capability</b>	Yes
<b>product extension optional phase failure monitoring</b>	Yes
<b>product extension optional voltage trigger</b>	No
<b>product extension optional overvoltage protection monitoring</b>	Yes
<b>Product function</b>	
<b>product function overvoltage protection monitoring</b>	No
<b>Short circuit</b>	
<b>conditional short-circuit current (I<sub>q</sub>)</b>	
• at AC at 240 V with high-speed activation 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	50 kA
• with closed switch at AC at 240 V rated value	100 kA
• with closed switch at AC at 500 V rated value	100 kA
• with closed switch at AC at 690 V rated value	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	25 mm <sup>2</sup>
• solid or stranded maximum	240 mm <sup>2</sup>
• stranded minimum	25 mm <sup>2</sup>
• stranded maximum	240 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	34 x 18 mm
<b>type of connection technology</b>	Flat terminal

### Mechanical Design

<b>height</b>	306 mm
<b>width</b>	209.4 mm
<b>width of the busbar</b>	
• minimum	12 mm
• maximum	30 mm
<b>depth</b>	187.6 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>	60 mm
<b>Net Weight</b>	4.637 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
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### Approvals Certificates

<b>Environment</b>	<b>General Product Approval</b>
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[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)



[Miscellaneous](#)

<b>General Product Ap- proval</b>	<b>Maritime application</b>
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### Further information

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1153-1BC12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1153-1BC12>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1153-1BC12](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1153-1BC12)

CAX-Online-Generator

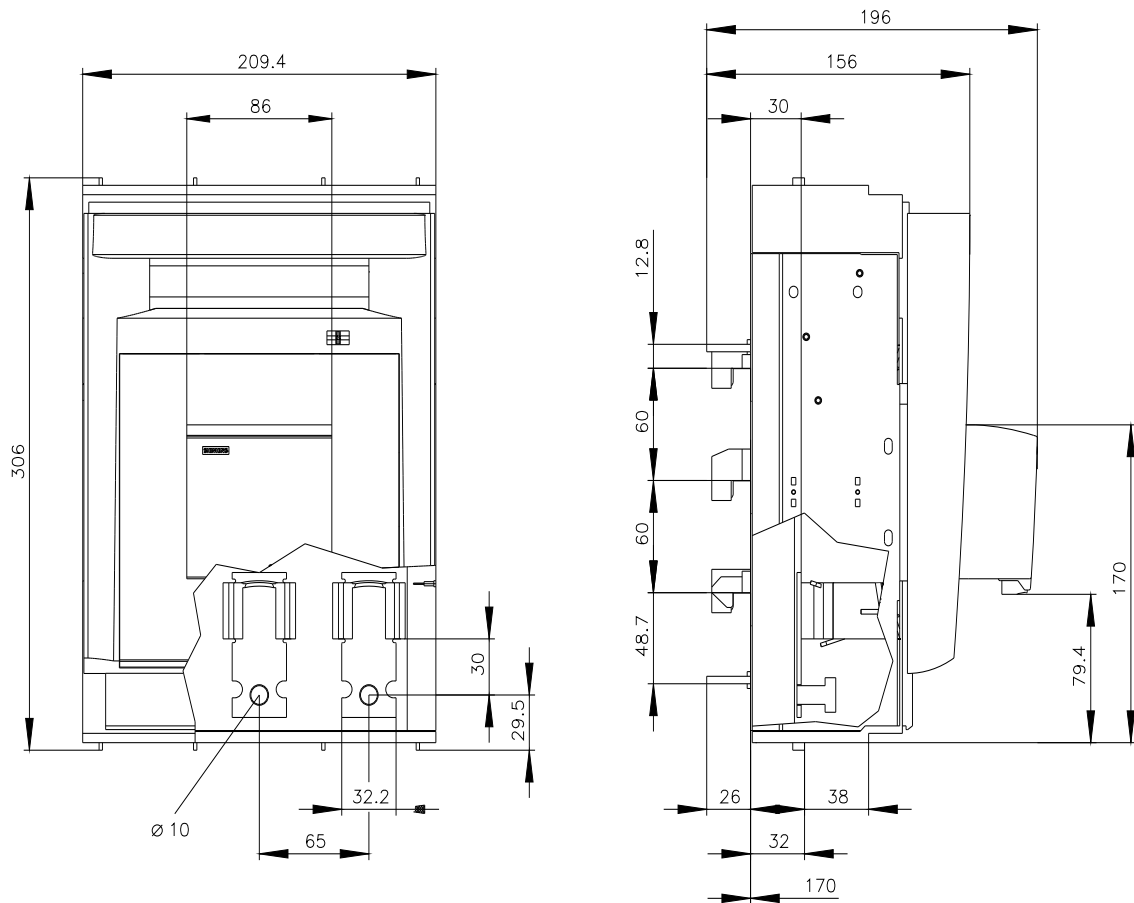
<https://www.siemens.com/cax>

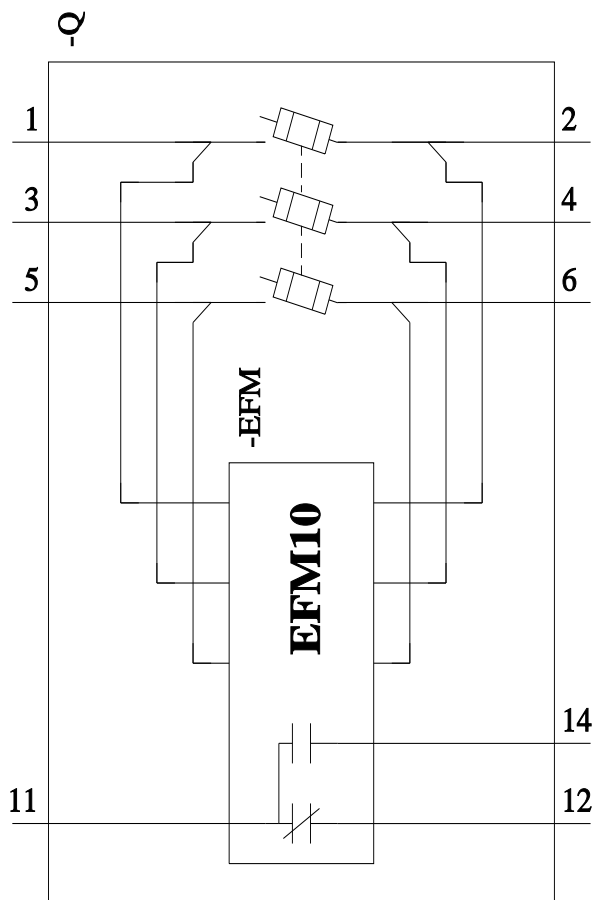
Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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