



SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for Rittal busbar system 60 mm, Box terminal, Cover level 32/70 mm

Model	
product designation	Fuse switch disconnector
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	Without
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 60 mm busbar system
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 <sub>2</sub> t value with closed switch maximum	5 400 kA <sub>2</sub> .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	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	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
• at AC-23 B at 690 V rated value	200 A
• at AC-23 B at 500 V rated value	500 A
• at AC-23 B at 400 V rated value	630 A
• at AC-23 B at 240 V rated value	630 A
• at DC-21 B at 120 V rated value	630 A
• at DC-21 B at 240 V rated value	630 A
• at DC-21 B at 440 V rated value	630 A
• at DC-22 B at 120 V rated value	630 A
• at DC-22 B at 240 V rated value	500 A
• at DC-23 B at 120 V rated value	400 A
• at DC-23 B at 240 V rated value	400 A
• at DC-23 B at 440 V rated value	250 A
<b>let-through current with high-speed activation maximum permissible</b>	50 kA
<b>operating voltage</b>	
• at AC rated value maximum	690 V
• at DC rated value	440 V
• at DC rated value maximum	440 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	30 W
• with conventional rated thermal current without fuse per device	90 W
• for rated value of the current at AC in hot operating state per pole	78 W
• of the fuse per fuse maximum	48 W
<b>Main circuit</b>	
<b>operational current</b>	
• rated value	630 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>	
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 disconnector</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	No
product component	
• undervoltage release	No
• undervoltage release with leading contact	No
product feature sealable	Yes
product extension auxiliary switch	Yes
<b>product extension optional</b>	
• locking capability	Yes
• phase failure monitoring	Yes
• fuse monitoring	Yes
• voltage trigger	No
• overvoltage protection monitoring	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>	
• at AC at 240 V with high-speed activation rated value	50 kA
• at AC at 500 V with high-speed activation rated value	50 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
<b>Connections</b>	
arrangement of electrical connectors for main current circuit	other
<b>connectable conductor cross-section for main contacts</b>	
• solid or stranded minimum	50 mm <sup>2</sup>
• solid or stranded maximum	300 mm <sup>2</sup>
• finely stranded with core end processing minimum	120 mm <sup>2</sup>
• finely stranded with core end processing maximum	240 mm <sup>2</sup>
• stranded minimum	50 mm <sup>2</sup>
• stranded maximum	300 mm <sup>2</sup>
<b>tightening torque with screw-type terminals</b>	
• minimum	25 N·m
• maximum	25 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	32 x 20 mm
<b>type of connection technology</b>	
Box terminal	
<b>Mechanical Design</b>	
<b>height</b>	306 mm
<b>width</b>	249.4 mm
<b>width of the busbar</b>	
• minimum	12 mm
• maximum	30 mm
<b>depth</b>	161.5 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>	6.84 kg
<b>Environmental conditions</b>	
<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	55 °C
<b>ambient temperature during storage</b>	
• minimum	-50 °C
• maximum	80 °C
<b>Certificates</b>	
reference code according to IEC 81346-2	Q
<b>Approvals Certificates</b>	
General Product Approval	



**UK  
CA**



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Test Certificates	Marine / Shipping	other
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[Type Test Certific-  
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ate](#)



[Confirmation](#)

other

Environment

[Miscellaneous](#)

[Environmental Con-  
firmations](#)

[Environmental Con-  
firmations](#)

#### 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=3NP1163-1JC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1JC20>

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

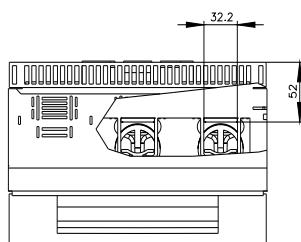
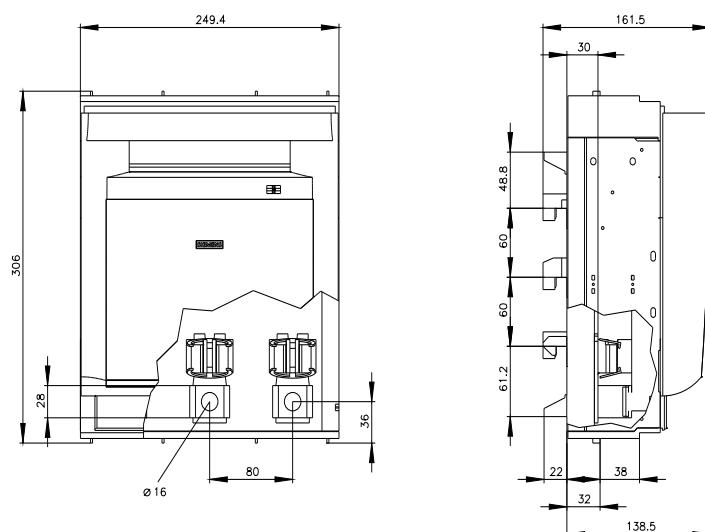
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1163-1JC20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1JC20)

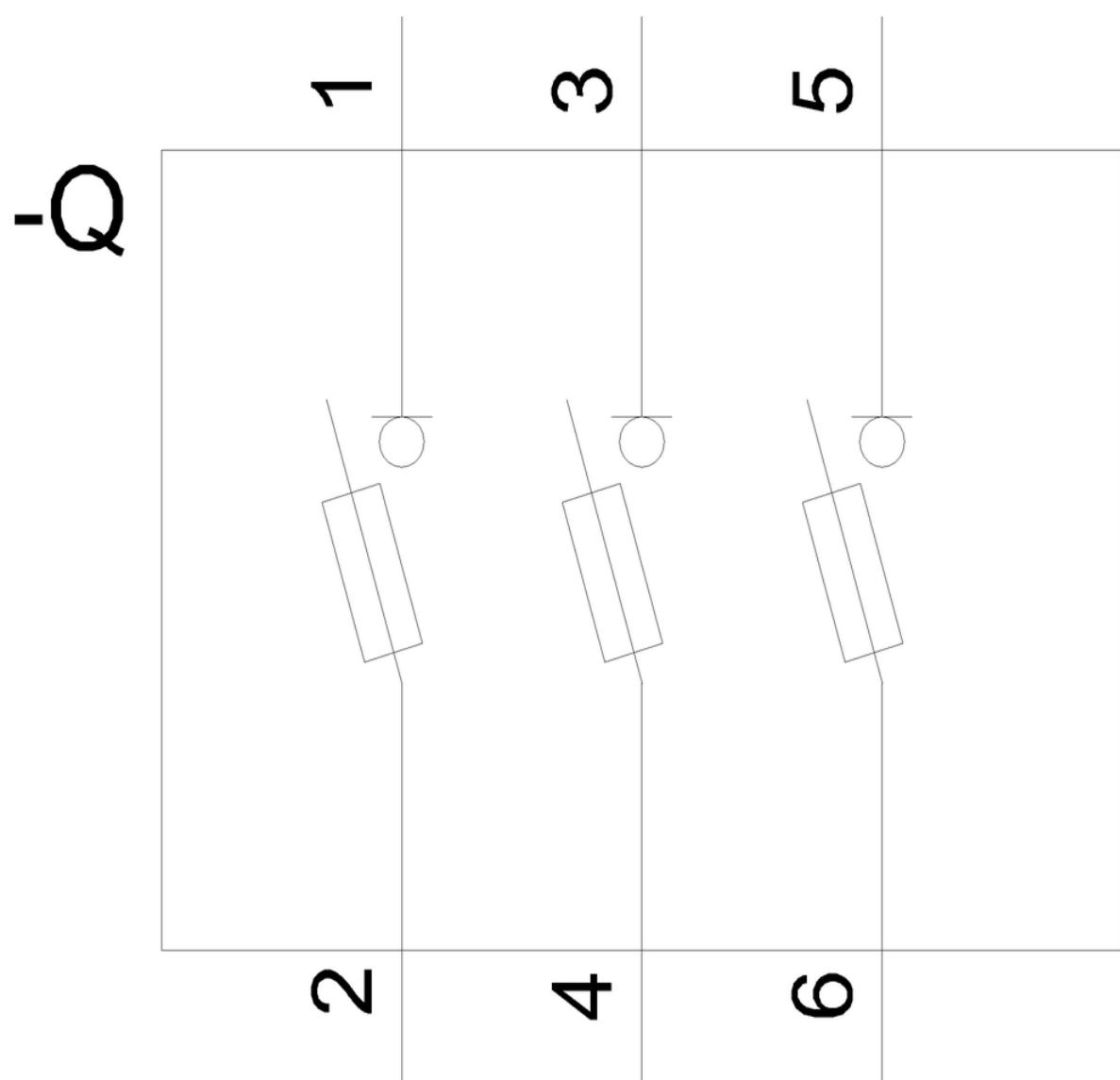
CAx-Online-Generator

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

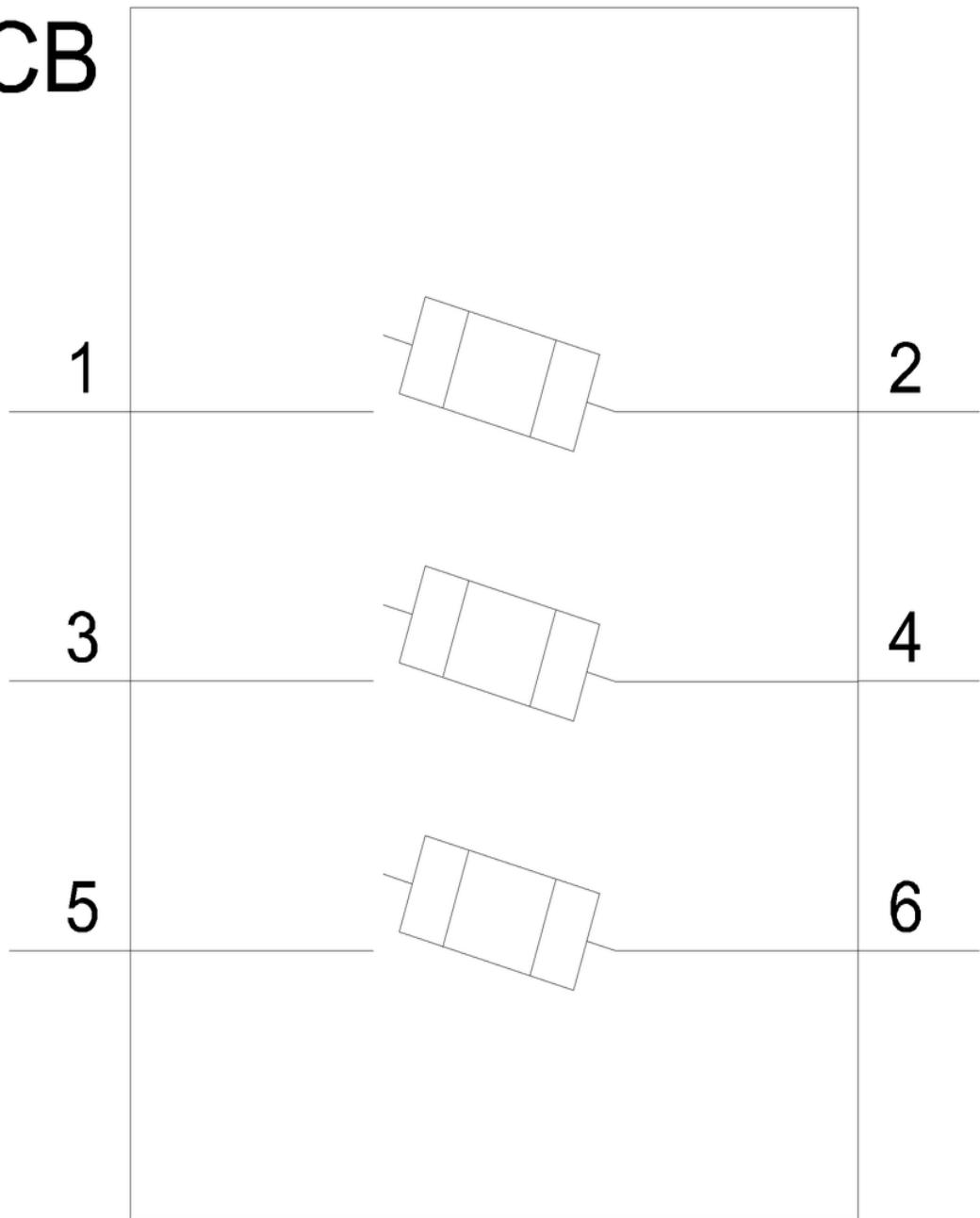
Tender specifications

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





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