










SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH1, 250 A, for Rittal busbar system 60 mm, Box terminal, 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	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	1 and 0
size of fuse link	NH0, NH1
let-through current with closed switch maximum	32 kA
mechanical service life (operating cycles) typical	1 600
I ² t value with closed switch maximum	780 kA ² .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
operating voltage	
• at AC rated value maximum	690 V
• at DC rated value	440 V
• at DC rated value maximum	440 V
Protection class	
protection class IP	
• with closed switch with cover or cable lug cover	IP40
• with closed switch without cover or cable lug cover	IP30
• open	IP20
Dissipation	
power loss [W]	
• with conventional rated thermal current without fuse per pole	8 W

<ul style="list-style-type: none"> • with conventional rated thermal current without fuse per device 	24 W
<ul style="list-style-type: none"> • for rated value of the current at AC in hot operating state per pole 	31 W
<ul style="list-style-type: none"> • of the fuse per fuse maximum 	23 W
operational current	
<ul style="list-style-type: none"> • at 35 °C rated value 	250 A
<ul style="list-style-type: none"> • at 40 °C rated value 	245 A
<ul style="list-style-type: none"> • at 45 °C rated value 	240 A
<ul style="list-style-type: none"> • at 50 °C rated value 	233 A
<ul style="list-style-type: none"> • at 55 °C rated value 	233 A
<ul style="list-style-type: none"> • at AC-21 B at 240 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-21 B at 400 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-21 B at 500 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-21 B at 690 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-22 B at 240 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-22 B at 400 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-22 B at 500 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-22 B at 690 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-23 B at 690 V rated value 	100 A
<ul style="list-style-type: none"> • at AC-23 B at 500 V rated value 	200 A
<ul style="list-style-type: none"> • at AC-23 B at 400 V rated value 	250 A
<ul style="list-style-type: none"> • at AC-23 B at 240 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-21 B at 120 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-21 B at 240 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-21 B at 440 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-22 B at 120 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-22 B at 240 V rated value 	250 A
<ul style="list-style-type: none"> • at DC-22 B at 440 V rated value 	200 A
<ul style="list-style-type: none"> • at DC-23 B at 120 V rated value 	200 A
<ul style="list-style-type: none"> • at DC-23 B at 240 V rated value 	200 A
<ul style="list-style-type: none"> • at DC-23 B at 440 V rated value 	100 A
let-through current with high-speed activation maximum permissible	25 kA
Main circuit	
operational current	
<ul style="list-style-type: none"> • rated value 	250 A
<ul style="list-style-type: none"> • with capacitive load at 400 V rated value 	72 A
<ul style="list-style-type: none"> • with capacitive load at 500 V rated value 	55 A
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use	
<ul style="list-style-type: none"> • main switch 	No
<ul style="list-style-type: none"> • switch disconnecter 	Yes
<ul style="list-style-type: none"> • EMERGENCY OFF switch 	No
<ul style="list-style-type: none"> • safety switch 	Yes
<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Product details	
product component	
<ul style="list-style-type: none"> • undervoltage release 	No
<ul style="list-style-type: none"> • undervoltage release with leading contact 	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
<ul style="list-style-type: none"> • locking capability 	Yes
<ul style="list-style-type: none"> • phase failure monitoring 	Yes
<ul style="list-style-type: none"> • fuse monitoring 	Yes
<ul style="list-style-type: none"> • voltage trigger 	No

• overvoltage protection monitoring	Yes				
Product function					
product function overvoltage protection monitoring	No				
Connections					
arrangement of electrical connectors for main current circuit	other				
connectable conductor cross-section for main contacts					
• solid or stranded minimum	70 mm ²				
• solid or stranded maximum	185 mm ²				
• stranded minimum	70 mm ²				
• stranded maximum	185 mm ²				
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	20 x 10 mm				
type of connection technology	Box terminal				
Mechanical Design					
height	306 mm				
width	183.7 mm				
width of the busbar					
• minimum	12 mm				
• maximum	30 mm				
depth	138 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	2.85 kg				
Environmental conditions					
ambient temperature during operation					
• minimum	-25 °C				
• maximum	55 °C				
ambient temperature during storage					
• minimum	-50 °C				
• maximum	80 °C				
Certificates					
reference code according to IEC 81346-2	Q				
Approvals Certificates					
General Product Approval					
Declaration of Conformity					
	Confirmation		Miscellaneous		
Declaration of Conformity	Test Certificates	Marine / Shipping		other	
	Type Test Certificates/Test Report	Special Test Certificate			Miscellaneous
other	Environment				
Confirmation	Environmental Confirmations				

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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?mifb=3NP1143-1JC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1JC20>

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

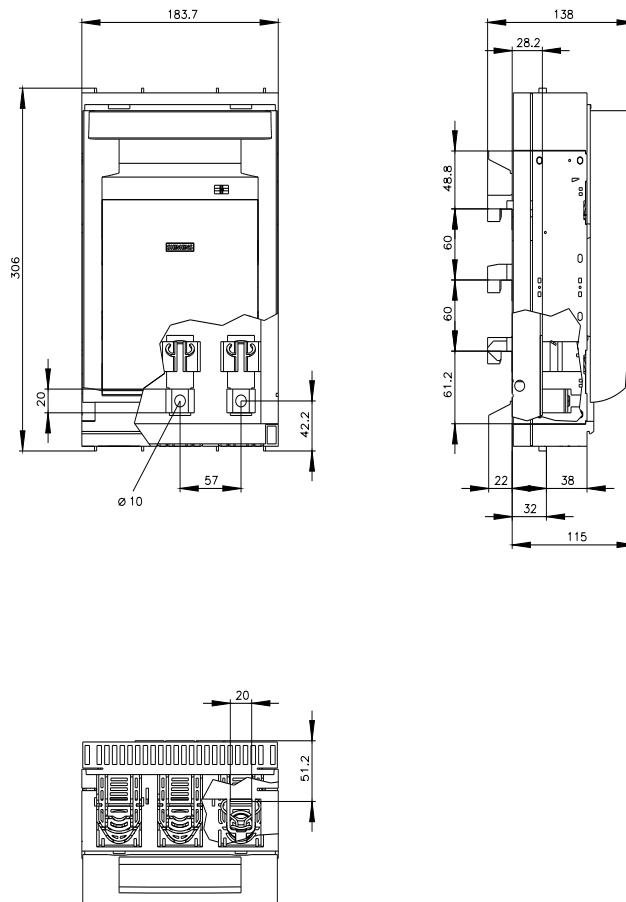
http://www.automation.siemens.com/bilddb/cax_en.aspx?mifb=3NP1143-1JC20

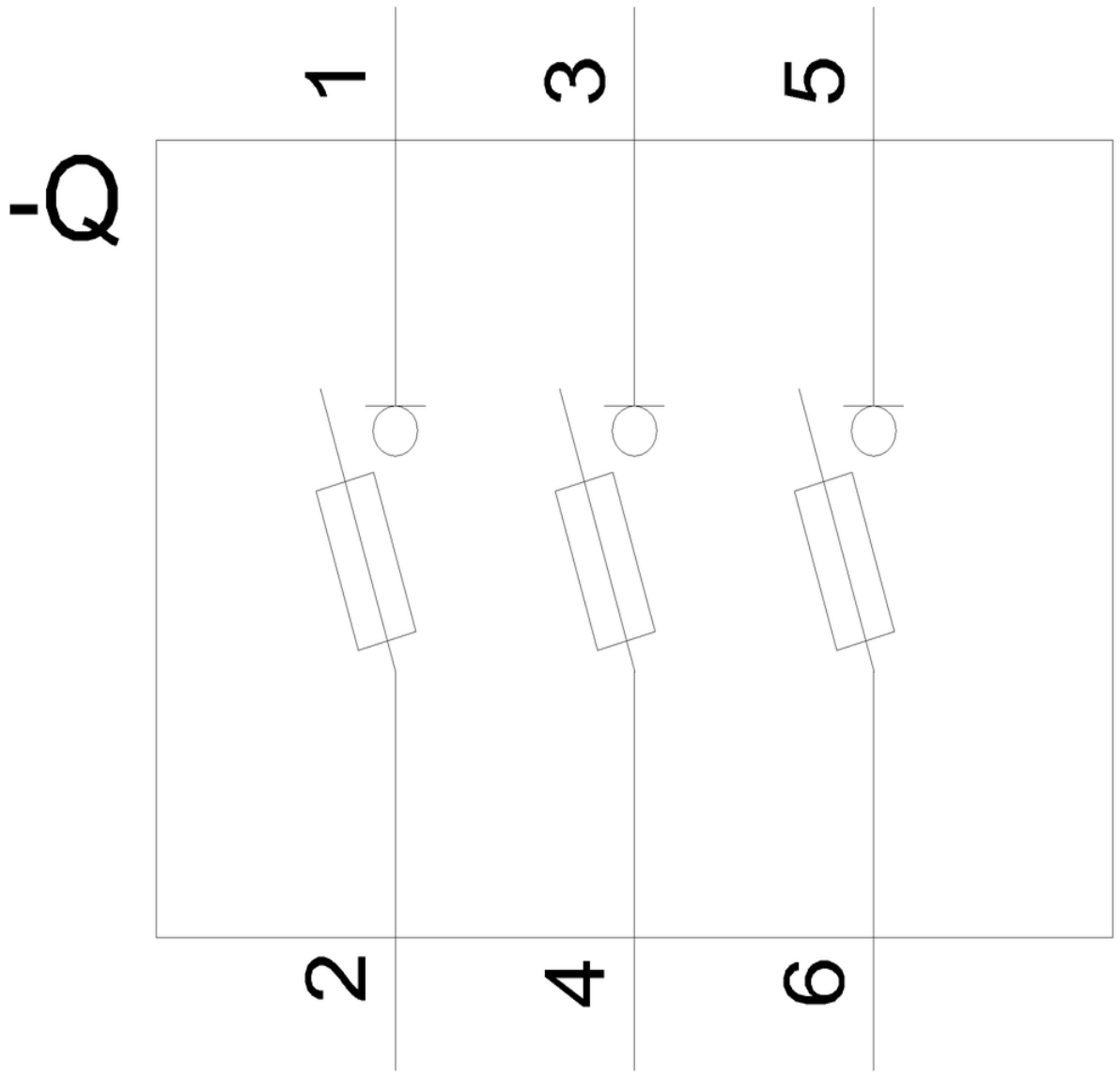
CAX-Online-Generator

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

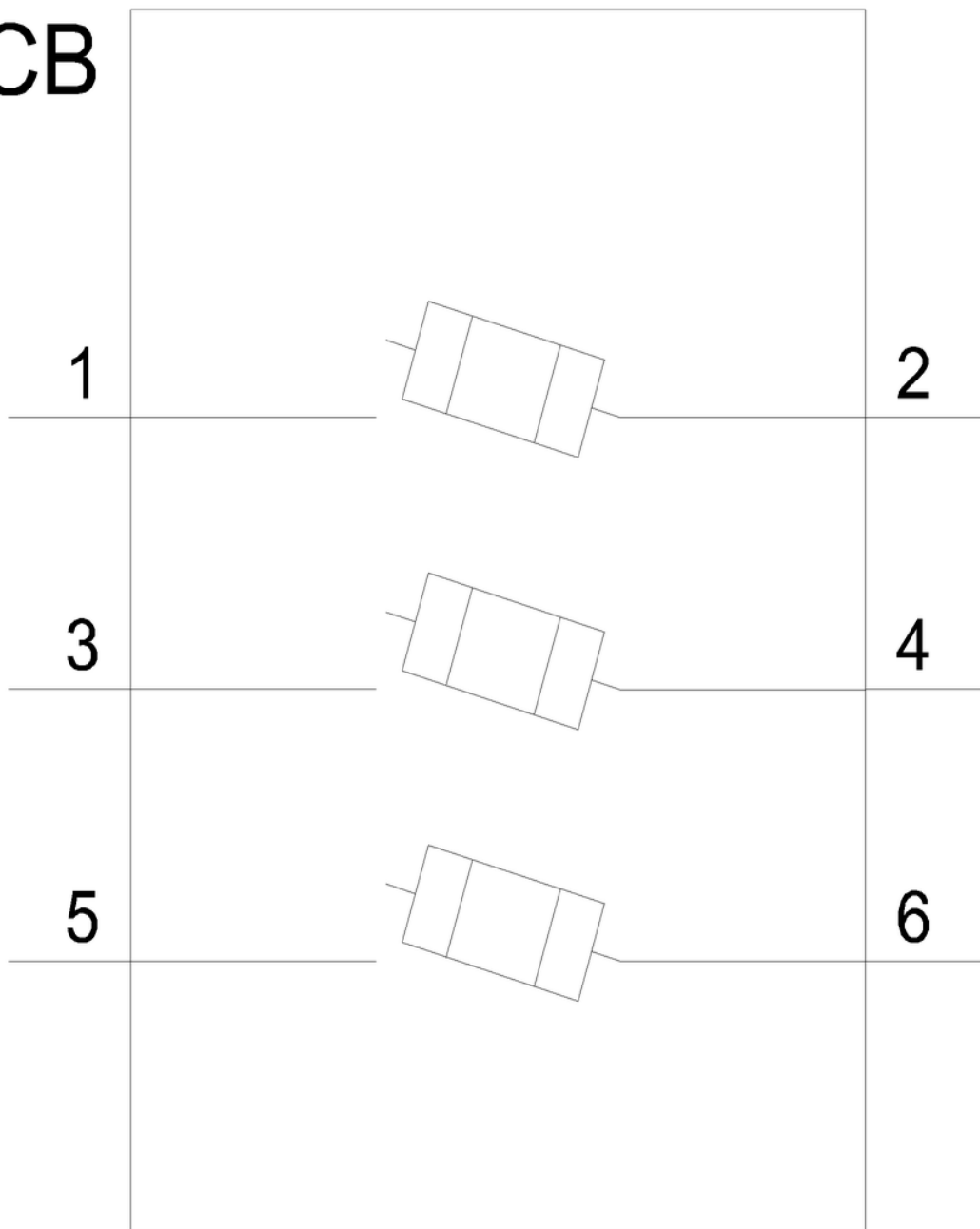
Tender specifications

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





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