



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH1, 250 A, for Busbar system 8US 60 mm, Box terminal, Cover level 32/70 mm

Model	
product brand name	SENTRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 32/70 mm
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	Without
design of the actuating element	Cover handle
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	1 and 0
size of fuse link	NH0, NH1
let-through current with closed switch maximum permissible	32 kA
mechanical service life (operating cycles) typical	1 600
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
• on the front	IP40
Dissipation	

power loss [W]	
<ul style="list-style-type: none"> • 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

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 disconnect 	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"> • trip indicator 	No
<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"> • motor drive 	No
<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
<ul style="list-style-type: none"> • overvoltage protection monitoring 	Yes

Product function

product function	
<ul style="list-style-type: none"> • fuse monitoring 	No
<ul style="list-style-type: none"> • overvoltage protection monitoring 	No

Connections

arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
<ul style="list-style-type: none"> • solid or stranded minimum 	70 mm ²
<ul style="list-style-type: none"> • solid or stranded maximum 	185 mm ²
<ul style="list-style-type: none"> • finely stranded with core end processing minimum 	70 mm ²
<ul style="list-style-type: none"> • finely stranded with core end processing maximum 	120 mm ²
<ul style="list-style-type: none"> • stranded minimum 	70 mm ²
<ul style="list-style-type: none"> • stranded maximum 	185 mm ²
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	10 N·m
<ul style="list-style-type: none"> • 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
type of electrical connection for main current circuit	box terminal

Mechanical Design

height	306 mm
width	183.7 mm
depth	142.2 mm

fastening method	busbar
fastening method	
• floor mounting	No
• 4-hole front mounting	No
• front mounting with central attachment	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

General Product Approval

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity



Test Certificates

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

Marine / Shipping



other

Environment

[Confirmation](#)

[Miscellaneous](#)

[Environmental Confirmations](#)

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=3NP1143-1BC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1BC20>

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

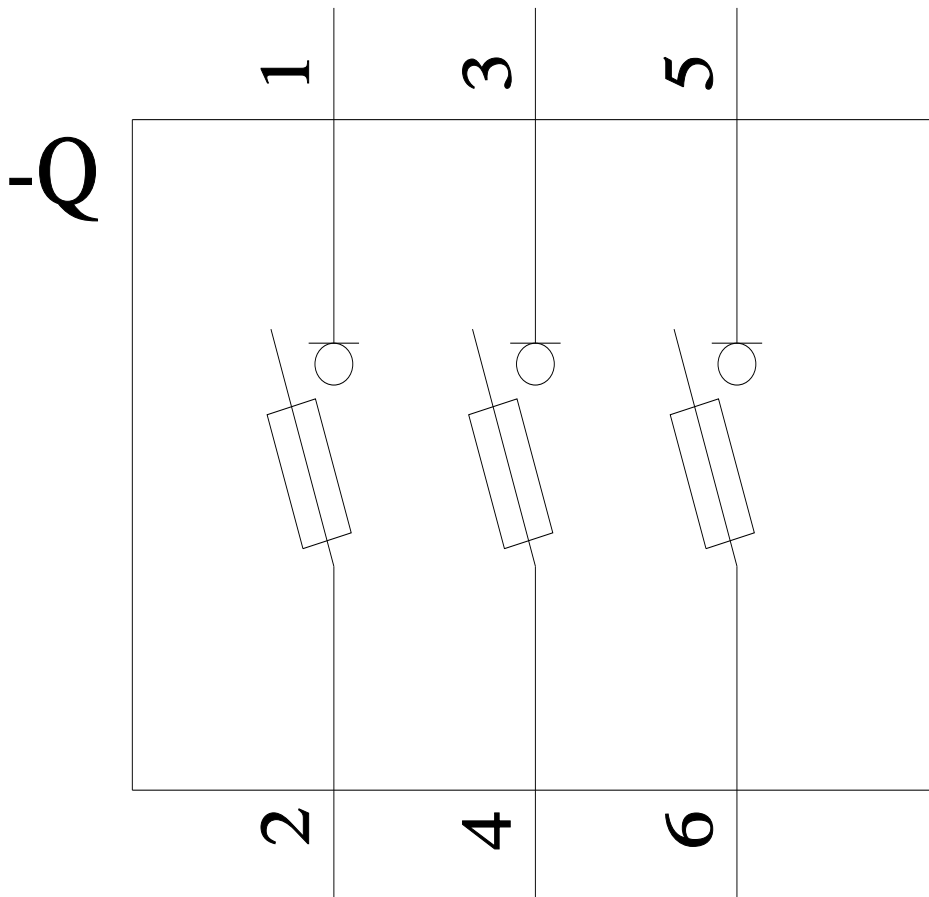
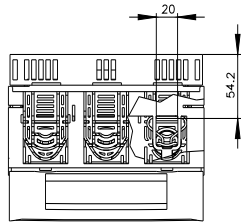
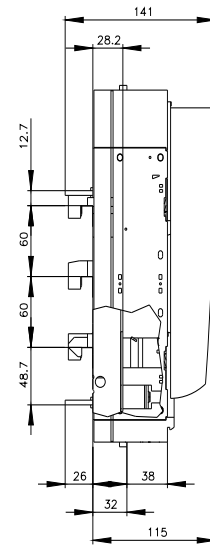
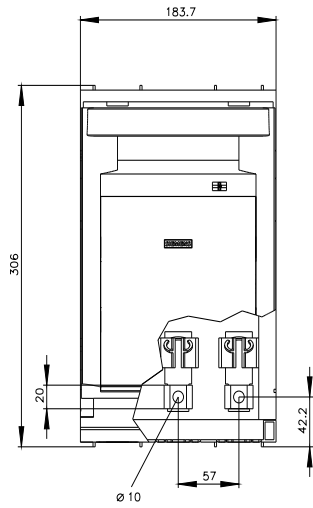
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1BC20

CAX-Online-Generator

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

Tender specifications

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



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