



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH1, 250 A, for assembly and installation on mounting plate, flat terminal, cover level 70 mm

Model

product brand name	SENTRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 70 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 assembly and installation on mounting plate
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]	
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• with conventional rated thermal current without fuse per pole	8 W
• with conventional rated thermal current without fuse per device	24 W
• for rated value of the current at AC in hot operating state per pole	31 W
• of the fuse per fuse maximum	23 W

Main circuit

operational current	
• rated value	250 A
• with capacitive load at 400 V rated value	72 A
• 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	
• main switch	No
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Product details

product component	
• trip indicator	No
• undervoltage release	No
• undervoltage release with leading contact	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
• locking capability	Yes
• motor drive	No
• phase failure monitoring	Yes
• fuse monitoring	Yes
• voltage trigger	No
• overvoltage protection monitoring	Yes

Product function

product function	
• fuse monitoring	No
• 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	16 mm ²
• solid or stranded maximum	150 mm ²
• stranded minimum	16 mm ²
• stranded maximum	150 mm ²
tightening torque with screw-type terminals	
• minimum	10 N·m
• maximum	12 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	25 x 18 mm
type of connection technology	Flat terminal
type of electrical connection for main current circuit	busbar connection

Mechanical Design

height	306 mm
width	183.7 mm
depth	116 mm
fastening method	mounting plate
fastening method	
• floor mounting	Yes

<ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	No
mounting position	horizontal/vertical
net weight	2.19 kg

Environmental conditions

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

General Product Approval

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity



Test Certificates

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

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?mfb=3NP1143-1DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1DA10>

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

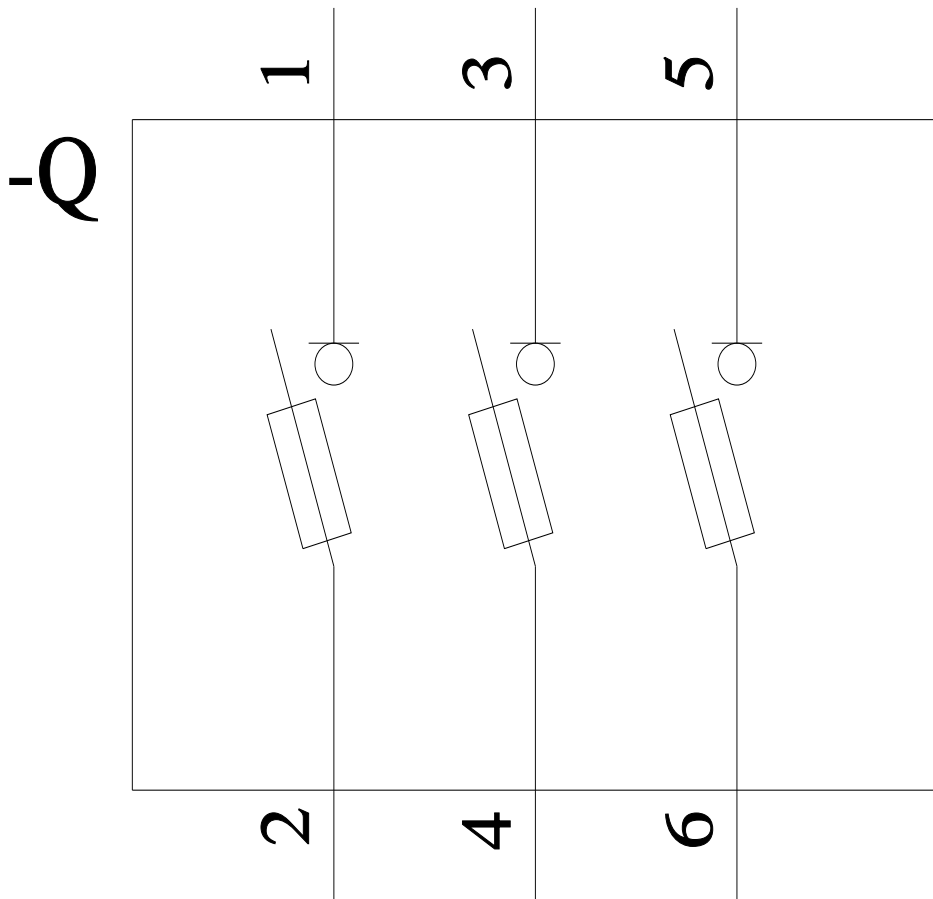
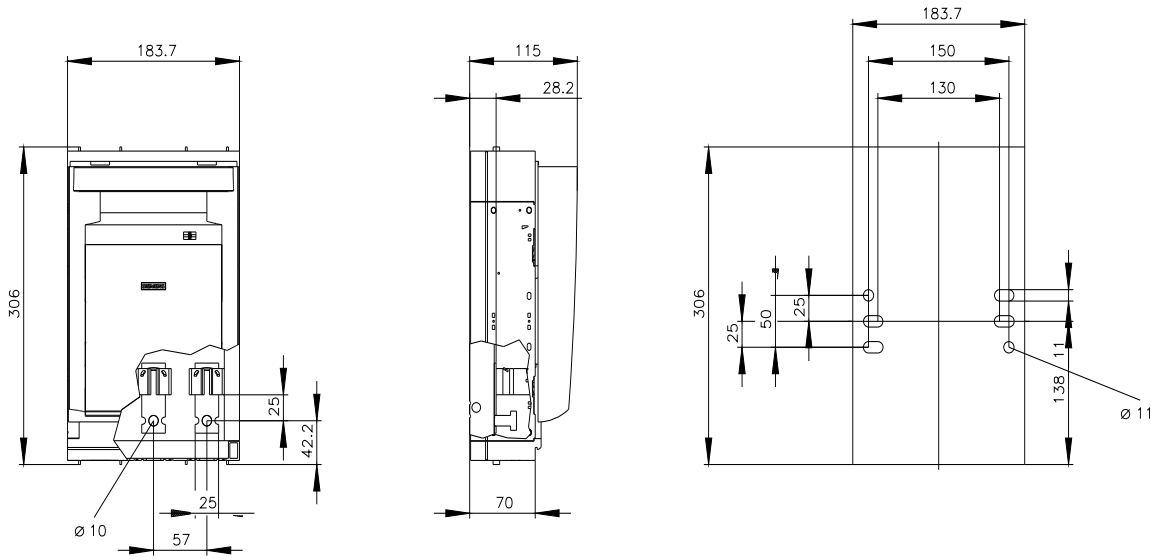
http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP1143-1DA10

CAX-Online-Generator

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

Tender specifications

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



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