



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, Fuse monitoring: electronic EFM10, Cover level 45 mm

Model

product brand name	SENTRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 45 mm
design of the safety monitoring	electronic EFM 10
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	000
size of fuse link	NH000
let-through current with closed switch maximum permissible	15 kA
mechanical service life (operating cycles) typical	2 000
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	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
operating voltage	
• at AC rated value minimum	230 V
• at AC rated value maximum	690 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]	
• with conventional rated thermal current without fuse	5 W

per pole	
<ul style="list-style-type: none"> with conventional rated thermal current without fuse per device 	15 W
<ul style="list-style-type: none"> for rated value of the current at AC in hot operating state per pole 	14 W
<ul style="list-style-type: none"> of the fuse per fuse maximum 	9 W

Main circuit

operational current	
<ul style="list-style-type: none"> rated value 	125 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"> trip indicator 	Yes
<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"> 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 	Yes
<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 	1.5 mm ²
<ul style="list-style-type: none"> solid or stranded maximum 	50 mm ²
<ul style="list-style-type: none"> finely stranded with core end processing minimum 	1.5 mm ²
<ul style="list-style-type: none"> finely stranded with core end processing maximum 	35 mm ²
<ul style="list-style-type: none"> stranded minimum 	1.5 mm ²
<ul style="list-style-type: none"> stranded maximum 	50 mm ²
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> minimum 	3.5 N·m
<ul style="list-style-type: none"> maximum 	4 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	8 x 8 mm
type of connection technology	Box terminal
type of electrical connection for main current circuit	box terminal

Mechanical Design

height	141.7 mm
width	88.8 mm
depth	117.9 mm
fastening method	mounting plate
fastening method	
<ul style="list-style-type: none"> floor mounting 	Yes

• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
mounting position	horizontal/vertical
net weight	0.59 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

Marine / Shipping

other



[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

other

Environment

[Confirmation](#)

[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=3NP1123-1CA22>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1CA22>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP1123-1CA22

CAX-Online-Generator

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

Tender specifications

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





