



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, 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	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	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	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 5 W
- with conventional rated thermal current without fuse per device 15 W
- for rated value of the current at AC in hot operating state per pole 14 W
- of the fuse per fuse maximum 9 W

Main circuit

- operational current
 - rated value 125 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 1.5 mm²
 - solid or stranded maximum 50 mm²
 - finely stranded with core end processing minimum 1.5 mm²
 - finely stranded with core end processing maximum 35 mm²
 - stranded minimum 1.5 mm²
 - stranded maximum 50 mm²
- tightening torque with screw-type terminals
 - minimum 3.5 N·m
 - 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 74.1 mm
- fastening method mounting plate

fastening method	
<ul style="list-style-type: none"> • floor mounting • 4-hole front mounting • front mounting with central attachment • rail mounting 	Yes No No No
mounting position	horizontal/vertical
net weight	0.47 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

[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=3NP1123-1CA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1CA20>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1123-1CA20

CAX-Online-Generator

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

Tender specifications

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



