



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH00, 160 A, for assembly and installation on mounting plate, flat 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	00 and 000
size of fuse link	NH000, NH00
let-through current with closed switch maximum permissible	23 kA
mechanical service life (switching 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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<ul style="list-style-type: none"> • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per device • for rated value of the current at AC in hot operating state per pole • of the fuse per fuse maximum 	5 W 15 W 17 W 12 W
Current	
operational current	
<ul style="list-style-type: none"> • at 35 °C rated value • at 40 °C rated value • at 45 °C rated value • at 50 °C rated value • at 55 °C rated value • at AC rated value • at AC-23 B at 690 V rated value • at AC-23 B at 500 V rated value • at AC-23 B at 400 V rated value • at AC-23 B at 240 V rated value • at AC-22 B at 690 V rated value • at AC-22 B at 500 V rated value • at AC-22 B at 400 V rated value • at AC-22 B at 240 V rated value • at AC-21 B at 240 V rated value • at AC-21 B at 400 V rated value • at AC-21 B at 500 V rated value • at AC-21 B at 690 V rated value • at DC-23 B at 440 V rated value • at DC-23 B at 240 V rated value • at DC-23 B at 120 V rated value • at DC-22 B at 440 V rated value • at DC-22 B at 240 V rated value • at DC-22 B at 120 V rated value • at DC-21 B at 440 V rated value • at DC-21 B at 240 V rated value • at DC-21 B at 120 V rated value 	160 A 155 A 145 A 140 A 133 A 160 A 35 A 63 A 160 A 160 A 125 A 160 A 160 A 160 A 160 A 160 A 160 A 160 A 63 A 100 A 100 A 125 A 160 A 160 A 160 A 160 A 160 A
let-through current with high-speed activation maximum permissible	15 kA
Main circuit	
operational current	
<ul style="list-style-type: none"> • rated value • with capacitive load at 400 V rated value • with capacitive load at 500 V rated value 	160 A 72 A 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 • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch 	No Yes No Yes Yes
Product details	
product component	
<ul style="list-style-type: none"> • trip indicator • undervoltage release • undervoltage release with leading contact 	No No No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
<ul style="list-style-type: none"> • locking capability 	Yes

- motor drive
- phase failure monitoring
- fuse monitoring
- voltage trigger
- overvoltage protection monitoring

No
Yes
Yes
No
Yes

Product function

product function

- fuse monitoring
- overvoltage protection monitoring

No
No

Connections

arrangement of electrical connectors for main current circuit

other

connectable conductor cross-section for main contacts

- solid or stranded minimum
- solid or stranded maximum
- stranded minimum
- stranded maximum

2.5 mm²
95 mm²
2.5 mm²
95 mm²

tightening torque with screw-type terminals

- minimum
- maximum

10 N·m
12 N·m

type of connectable conductor cross-sections of the laminated conductors maximum

24 x 12 mm

type of connection technology

Flat terminal

type of electrical connection for main current circuit

busbar connection

Mechanical Design

height

202 mm

width

105.8 mm

depth

86.5 mm

fastening method

mounting plate

fastening method

- floor mounting
- 4-hole front mounting
- front mounting with central attachment
- rail mounting

Yes
No
No
No

mounting position

horizontal/vertical

net weight

0.73 kg

Environmental conditions

ambient temperature during operation

- minimum
- maximum

-25 °C
55 °C

ambient temperature during storage

- minimum
- maximum

-50 °C
80 °C

General Product Approval

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity

Test Certificates

Marine / Shipping



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



other

Further information

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=3NP1133-1CA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1CA10>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1CA10

CAX-Online-Generator

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

Tender specifications

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





