



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH00, 160 A, for assembly and installation on mounting plate, flat terminal, Fuse monitoring: electromechanical, 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	electro mechanical
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 minimum	24 V
• at AC rated value maximum	690 V
• at DC rated value	240 V
• at DC rated value minimum	24 V
• at DC rated value maximum	250 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 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	17 W
• of the fuse per fuse maximum	12 W
Current	
operational current	
• at 35 °C rated value	160 A
• at 40 °C rated value	155 A
• at 45 °C rated value	145 A
• at 50 °C rated value	140 A
• at 55 °C rated value	133 A
• at AC rated value	160 A
• at AC-23 B at 690 V rated value	35 A
• at AC-23 B at 500 V rated value	63 A
• at AC-23 B at 400 V rated value	160 A
• at AC-23 B at 240 V rated value	160 A
• at AC-22 B at 690 V rated value	125 A
• at AC-22 B at 500 V rated value	160 A
• at AC-22 B at 400 V rated value	160 A
• at AC-22 B at 240 V rated value	160 A
• at AC-21 B at 240 V rated value	160 A
• at AC-21 B at 400 V rated value	160 A
• at AC-21 B at 500 V rated value	160 A
• at AC-21 B at 690 V rated value	160 A
• at DC-23 B at 440 V rated value	63 A
• at DC-23 B at 240 V rated value	100 A
• at DC-23 B at 120 V rated value	100 A
• at DC-22 B at 440 V rated value	125 A
• at DC-22 B at 240 V rated value	160 A
• at DC-22 B at 120 V rated value	160 A
• at DC-21 B at 440 V rated value	160 A
• at DC-21 B at 240 V rated value	160 A
• at DC-21 B at 120 V rated value	160 A
let-through current with high-speed activation maximum permissible	15 kA
Main circuit	
operational current	
• rated value	160 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	Yes
• 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
• voltage trigger	No
• overvoltage protection monitoring	Yes

Product function

product function	
• fuse monitoring	Yes
• 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	2.5 mm ²
• solid or stranded maximum	95 mm ²
• stranded minimum	2.5 mm ²
• stranded maximum	95 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	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	165.5 mm
fastening method	mounting plate
fastening method	
• floor mounting	Yes
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
mounting position	horizontal/vertical
net weight	1.17 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
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[Type Test Certificates/Test Report](#)



[Miscellaneous](#)

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=3NP1133-1CA11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1CA11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1CA11

CAX-Online-Generator

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

Tender specifications

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





