



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH00, 160 A, for assembly and installation on mounting plate, Box terminal, Cover level 45 mm

Model	
product designation	Fuse switch disconnecter
design of the safety monitoring	Without
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	23 kA
mechanical service life (operating cycles) typical	2 000
I ² t value with closed switch maximum	223 kA ² .s
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
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-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 AC-22 B at 240 V rated value	160 A
• at AC-22 B at 400 V rated value	160 A
• at AC-22 B at 500 V rated value	160 A
• at AC-22 B at 690 V rated value	125 A

<ul style="list-style-type: none"> • 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 DC-21 B at 120 V rated value • at DC-21 B at 240 V rated value • at DC-21 B at 440 V rated value • at DC-22 B at 120 V rated value • at DC-22 B at 240 V rated value • at DC-22 B at 440 V rated value • at DC-23 B at 120 V rated value • at DC-23 B at 240 V rated value • at DC-23 B at 440 V rated value 	35 A 63 A 160 A 160 A 160 A 160 A 160 A 160 A 160 A 125 A 100 A 100 A 63 A
let-through current with high-speed activation maximum permissible	15 kA
operating voltage	
<ul style="list-style-type: none"> • at AC rated value maximum • at DC rated value • at DC rated value maximum 	690 V 440 V 440 V
Protection class	
protection class IP	
<ul style="list-style-type: none"> • with closed switch with cover or cable lug cover • with closed switch without cover or cable lug cover • open 	IP40 IP30 IP20
Dissipation	
power loss [W]	
<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
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 function phase failure monitoring	No
product component	
<ul style="list-style-type: none"> • undervoltage release • undervoltage release with leading contact 	No No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
<ul style="list-style-type: none"> • locking capability • phase failure monitoring • fuse monitoring • voltage trigger • overvoltage protection monitoring 	Yes Yes Yes No Yes

Product function

product function overvoltage protection monitoring	No
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Short circuit

conditional short-circuit current (I_q)	
• at AC at 240 V with high-speed activation rated value	80 kA
• at AC at 500 V with high-speed activation rated value	80 kA
• at AC at 690 V with high-speed activation rated value	50 kA
• with closed switch at AC at 240 V rated value	120 kA
• with closed switch at AC at 500 V rated value	120 kA
• with closed switch at AC at 690 V rated value	100 kA

Connections

arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
• solid or stranded minimum	6 mm ²
• solid or stranded maximum	70 mm ²
• finely stranded with core end processing minimum	6 mm ²
• finely stranded with core end processing maximum	50 mm ²
• stranded minimum	6 mm ²
• stranded maximum	70 mm ²
tightening torque with screw-type terminals	
• minimum	10 N·m
• maximum	10 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	9 x 12 mm
type of connection technology	Box terminal

Mechanical Design

height	202 mm
width	105.8 mm
depth	86.5 mm
fastening method	mounting plate
fastening method	
• floor mounting	Yes
• rail mounting	No
mounting position	horizontal/vertical
net weight	0.73 kg

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

Certificates

reference code according to IEC 81346-2	Q
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Approvals Certificates

General Product Approval



[Confirmation](#)



General Product Approval

Test Certificates

Marine / Shipping

[Miscellaneous](#)



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



other

Environment

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=3NP1133-1CA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1CA20>

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

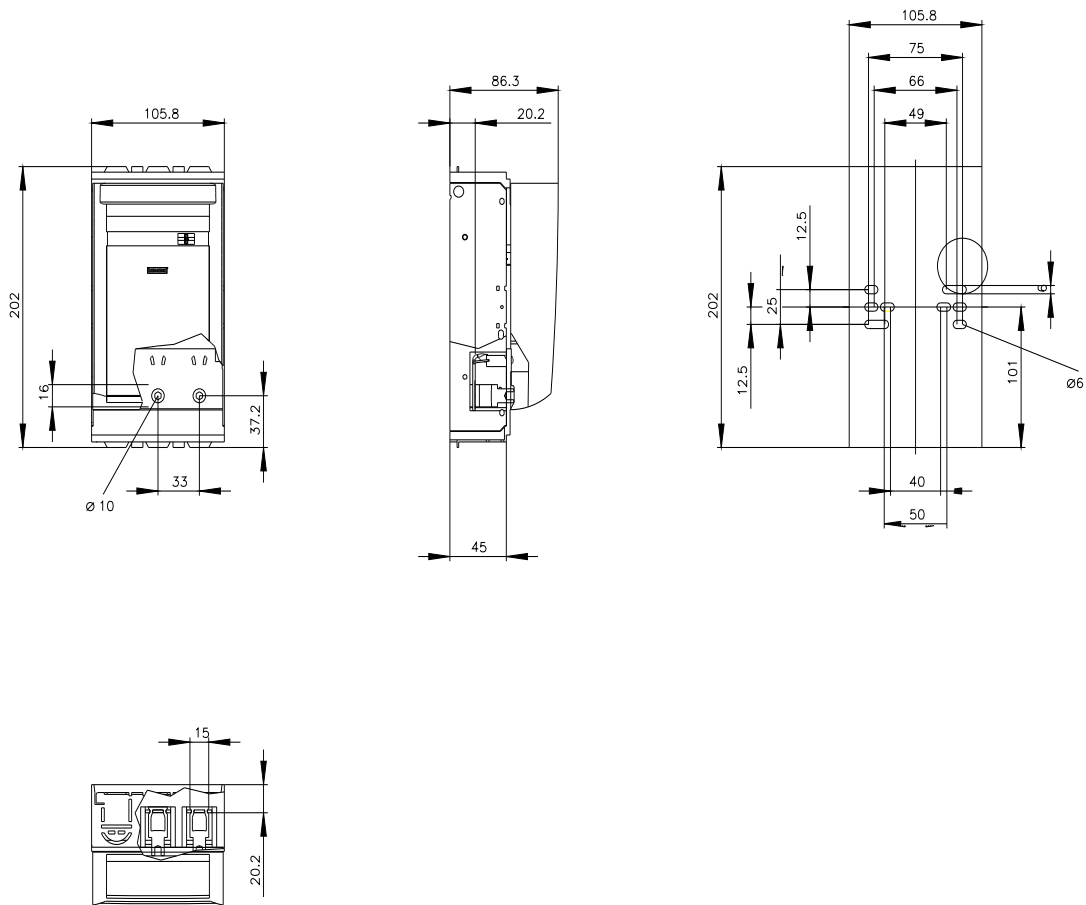
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1CA20

CAX-Online-Generator

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

Tender specifications

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





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