



SENTRON, fuse switch disconnecter 3NP1, 4-pole, NH1, 250 A, for assembly and installation on mounting plate, Flat terminal, cover level 70mm

Model	
product designation	3NP1 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	4
type of device	For assembly and installation on mounting plate
size of disconnecting link	1 and 0
size of fuse link	NH0, NH1
let-through current with closed switch maximum	32 kA
mechanical service life (operating cycles) typical	1 600
I ² t value with closed switch maximum	780 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	250 A
• at 40 °C rated value	245 A
• at 45 °C rated value	240 A
• at 50 °C rated value	233 A
• at 55 °C rated value	233 A
• at AC-21 B at 240 V rated value	250 A
• at AC-21 B at 400 V rated value	250 A
• at AC-21 B at 500 V rated value	250 A
• at AC-21 B at 690 V rated value	250 A
• at AC-22 B at 240 V rated value	250 A
• at AC-22 B at 400 V rated value	250 A
• at AC-22 B at 500 V rated value	250 A
• at AC-22 B at 690 V rated value	250 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 	<p>100 A</p> <p>200 A</p> <p>250 A</p> <p>200 A</p> <p>200 A</p> <p>200 A</p> <p>100 A</p>
let-through current with high-speed activation maximum permissible	25 kA
operating voltage	
<ul style="list-style-type: none"> • at AC rated value maximum • at DC rated value • at DC rated value maximum 	<p>690 V</p> <p>440 V</p> <p>440 V</p>
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 	<p>IP40</p> <p>IP30</p> <p>IP20</p>
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 	<p>8 W</p> <p>32 W</p> <p>31 W</p> <p>23 W</p>
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 	<p>250 A</p> <p>72 A</p> <p>55 A</p>
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 	<p>No</p> <p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p>
Product details	
product component	
<ul style="list-style-type: none"> • undervoltage release • undervoltage release with leading contact 	<p>No</p> <p>No</p>
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 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>Yes</p>

Product function	
product function 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 	16 mm ²
<ul style="list-style-type: none"> • solid or stranded maximum 	150 mm ²
<ul style="list-style-type: none"> • stranded minimum 	16 mm ²
<ul style="list-style-type: none"> • stranded maximum 	150 mm ²
tightening torque with screw-type terminals	
<ul style="list-style-type: none"> • minimum 	10 N·m
<ul style="list-style-type: none"> • maximum 	12 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	25 x 18 mm
type of connection technology	Flat terminal

Mechanical Design	
height	306 mm
width	253.7 mm
depth	116 mm
fastening method	mounting plate
fastening method	
<ul style="list-style-type: none"> • floor mounting 	Yes
<ul style="list-style-type: none"> • rail mounting 	No
mounting position	horizontal/vertical

Environmental conditions	
ambient temperature during operation	
<ul style="list-style-type: none"> • minimum 	-25 °C
<ul style="list-style-type: none"> • maximum 	55 °C
ambient temperature during storage	
<ul style="list-style-type: none"> • minimum 	-50 °C
<ul style="list-style-type: none"> • maximum 	80 °C

Certificates	
reference code according to IEC 81346-2	Q

Approvals Certificates

General Product Approval



[Confirmation](#)

[Miscellaneous](#)



Test Certificates	Marine / Shipping	other	Environment
Special Test Certificate	Type Test Certificates/Test Report		
		Miscellaneous	Confirmation

Environment

[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=3NP1144-1DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1144-1DA10>

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

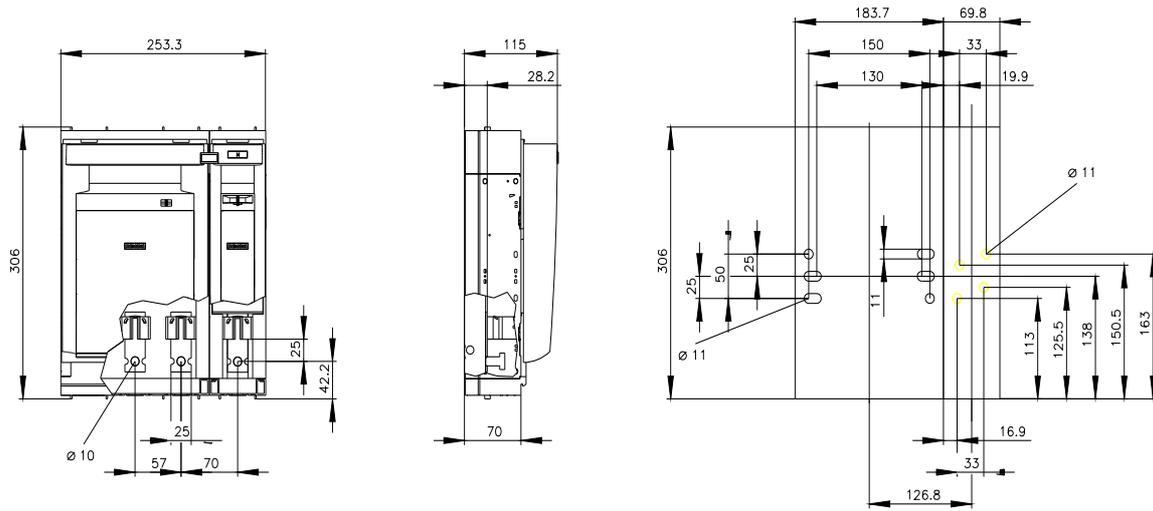
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1144-1DA10

CAX-Online-Generator

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

Tender specifications

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



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