



SETRON, fuse switch disconnecter 3NP1, 4-pole, NH3, 630 A, for assembly and installation on mounting plate, Flat terminal, cover level 70mm

Model	
product brand name	SETRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 70 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	4
type of device	For assembly and installation on mounting plate
size of disconnecting link	3 and 2
size of fuse link	NH2, NH3
let-through current / with closed switch / maximum permissible	60 kA
mechanical service life (switching cycles) / typical	1 000
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.35
• 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]	
• with conventional rated thermal current / without fuse / per pole	30 W
• with conventional rated thermal current / without fuse / per device	120 W
• for rated value of the current / at AC / in hot operating state / per pole	78 W
• of the fuse / per fuse / maximum	48 W
Current	
operational current	
• at 35 °C / rated value	630 A
• at 40 °C / rated value	610 A
• at 45 °C / rated value	575 A
• at 50 °C / rated value	555 A
• at 55 °C / rated value	530 A
• at AC / rated value	630 A
• at AC-23 B / at 690 V / rated value	200 A
• at AC-23 B / at 500 V / rated value	500 A
• at AC-23 B / at 400 V / rated value	630 A
• at AC-23 B / at 240 V / rated value	630 A
• at AC-22 B / at 690 V / rated value	500 A
• at AC-22 B / at 500 V / rated value	630 A
• at AC-22 B / at 400 V / rated value	630 A
• at AC-22 B / at 240 V / rated value	630 A
• at AC-21 B / at 240 V / rated value	630 A
• at AC-21 B / at 400 V / rated value	630 A
• at AC-21 B / at 500 V / rated value	630 A
• at AC-21 B / at 690 V / rated value	630 A
• at DC-23 B / at 440 V / rated value	250 A
• at DC-23 B / at 240 V / rated value	400 A
• at DC-23 B / at 120 V / rated value	400 A
• at DC-22 B / at 440 V / rated value	500 A
• at DC-22 B / at 240 V / rated value	630 A
• at DC-22 B / at 120 V / rated value	630 A
• at DC-21 B / at 440 V / rated value	630 A
• at DC-21 B / at 240 V / rated value	630 A
• at DC-21 B / at 120 V / rated value	630 A
let-through current / with high-speed activation / maximum permissible	50 kA
Main circuit	
operational current	
• rated value	630 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	120 mm ²
• solid or stranded / maximum	300 mm ²
• stranded / minimum	120 mm ²
• stranded / maximum	300 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	40 x 18 mm
type of connection technology	Flat terminal
type of electrical connection / for main current circuit	busbar connection
Mechanical Design	
height	306 mm
width	339 mm
depth	138.5 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
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	
Declaration of Conformity	



[Confirmation](#)

[Miscellaneous](#)



EG-Konf.

Test Certificates	Marine / Shipping	other
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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=3NP1164-1DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1164-1DA10>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1164-1DA10

CAX-Online-Generator

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

Tender specifications

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



