

SETRON, fuse switch disconnecter 3NP1, 1-pole, NH3, 630 A, for assembly and installation on mounting plate, Box 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 operating mechanism	Cover handle
Design of the load switch / Strip form	No
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	1
Type of device	For assembly and installation on mounting plate
Size of disconnecting link	3 and 2
Size of fuse link	NH2, NH3
Operating current / at 35 °C / rated value	630 A
Let-through current / with closed switch / maximum permissible	60 kA
Power factor	
• at AC-22 B	0.65
• at AC-23 B	0.35

• with capacitive load	-0.25
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	1 000
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 current / at AC / rated value	630 A
Operating voltage	
• at AC / rated value / maximum	240 V
• at DC / rated value	120 V
• at DC / rated value / maximum	120 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
• on the front	IP40
• open	IP20

Dissipation

Power loss [W]	
• with conventional rated thermal current / without fuse / per pole	30 W
• with conventional rated thermal current / without fuse / per device	30 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

Operating current	
• at AC-23 B / at 240 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 DC-23 B / at 120 V / rated value	400 A
• at DC-22 B / at 120 V / rated value	630 A

• at DC-21 B / at 120 V / rated value	630 A
Continuous current	
• 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
Let-through current / with high-speed activation / maximum permissible	50 kA

Main circuit

Operating 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 feature / interlock	Yes
• Product component / Trip indicator	No
• Product function / Phase failure monitoring	No
• Product component / undervoltage release	No
• Product component / 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	No
• fuse monitoring	Yes
• Voltage trigger	No
• Overvoltage protection monitoring	No

Product function	
Product function	
• fuse monitoring	No
• Overvoltage protection monitoring	No
Short circuit	
Conditional short-circuit current (I _q)	
• rated value	50 kA
• at AC / at 240 V / with high-speed activation / rated value	80 kA
• with closed switch / at AC / at 240 V / rated value	100 kA
Connections	
Arrangement of electrical connectors / for main current circuit	other
Connectable conductor cross-section / for main contacts	
• single or multi-stranded / minimum	50 mm ²
• single or multi-stranded / maximum	300 mm ²
• finely stranded / with core end processing / minimum	120 mm ²
• finely stranded / with core end processing / maximum	240 mm ²
• stranded / minimum	50 mm ²
• stranded / maximum	300 mm ²
Tightening torque / with screw-type terminals	
• minimum	25 N·m
• maximum	25 N·m
Type of connectable conductor cross-sections / of the laminated conductors / maximum	32 x 20 mm
Type of connection	Box terminal
Type of electrical connection / for main current circuit	box terminal
Mechanical Design	
Height	306 mm
Width	89.4 mm
Depth	138.5 mm
Mounting type	mounting plate
Mounting type	
• floor mounting	Yes
• front mounting	No
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	No

Mounting position	horizontal/vertical
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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	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates
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[Miscellaneous](#)



[Type Test
Certificates/Test Report](#)

[Special Test Certificate](#)

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=3NP1161-1DA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1161-1DA20>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1161-1DA20

CAX-Online-Generator

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

Tender specifications

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



