

SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH3, 630 A, for assembly and installation on mounting plate, Box terminal, Fuse monitoring: electromechanical, Cover level 70 mm



Model	
Product brand name	SETRON
Product designation	3NP1 fuse switch disconnecter
Design of the product	cover level 70 mm
Design of the safety monitoring	electro mechanical
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	3
Type of device	For assembly and installation on mounting plate
Size of disconnecting link	3 and 2
Size of fuse link	NH2, NH3
Continuous current / at 35 °C / rated value	630 A
Let-through current / with closed switch / maximum permissible	60 kA
cut-off value $I^{**}2t_{max}$ / 500 V	5 400 000 A <sup>2</sup> ·s
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

<b>Voltage</b>	
Insulation voltage / rated value	690 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV

<b>Protection class</b>	
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

<b>Electricity</b>	
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
Let-through current / I <sub>c</sub> / maximum permissible	
• 400 V	60 000 A
• 500V	60 000 A
cut-off value I <sup>2</sup> t <sub>max</sub> / 400 V	5 400 000 A <sup>2</sup> ·s

<b>Main circuit</b>	
Operating voltage	
• at AC / rated value / minimum	24 V
• at AC / rated value / maximum	690 V
• at DC / rated value	250 V
• at DC / rated value / minimum	24 V
• at DC / rated value / maximum	250 V
Operating current / with capacitive load	
• at 400 V / maximum	72 A
• at 500 V / maximum	55 A

<b>Auxiliary circuit</b>	
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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	Yes
• Phase failure monitoring	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product feature / sealable	Yes
Product extension	
• Auxiliary switch	Yes
• 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

## Short circuit

Conditional short-circuit current (I <sub>q</sub> )	
• rated value	50 kA
• at AC / at 500 V / with high-speed activation / rated value	50 kA
• at AC / at 690 V / with high-speed activation / rated value	50 kA
• with closed switch / at AC / at 500 V / rated value	100 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	
• single or multi-stranded / minimum	50 mm <sup>2</sup>
• single or multi-stranded / maximum	300 mm <sup>2</sup>
• stranded / minimum	50 mm <sup>2</sup>
• stranded / maximum	300 mm <sup>2</sup>
Tightening torque / with screw-type terminals	
• minimum	10 N·m
• maximum	25 N·m
Type of connectable conductor cross-sections / of the laminated conductors / maximum	20 x 32 mm
Type of electrical connection / for main current circuit	box terminal

## Mechanical Design





Height	306 mm
Width	249.4 mm
Depth	216.3 mm
Mounting position	horizontal/vertical
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
Net weight	5.07 kg


## Environmental conditions

Degree of pollution	3
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	55 °C
• during storage / minimum	-50 °C
• during storage / 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
 CCC	 UR	 VDE	<a href="#">Miscellaneous</a>	<a href="#">Type Test Certificates/Test Report</a>
			 EG-Konf.	

Shipping Approval
 LRS

Further information
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>
<b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1163-1DA21">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1163-1DA21</a>
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1DA21">https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1DA21</a>
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b> <a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1DA21">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1DA21</a>
<b>CAX-Online-Generator</b> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
<b>Tender specifications</b> <a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a>

