SIEMENS

Data sheet 3NP1163-1DA10

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for assembly and installation on mounting plate, flat terminal, cover level 70 mm



Model	
Product brand name	SENTRON
Product designation	3NP1 fuse switch disconnector
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	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 A²-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
Degree of pollution	3
Voltage	
Insulation voltage	
• rated value	690 V
 with degree of pollution 3 / rated value 	690 V
 with degree of pollution 2 / rated value 	1 000 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
Current / at AC / rated value	630 A
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
• 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 	90 W
•	

78 W

48 W

200 A

500 A

630 A

630 A

Operating current

• for rated value of the current / at AC / in hot

operating state / per pole

• of the fuse / per fuse / maximum

• 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 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 690 V / rated value	630 A
• at AC-21 B / at 500 V / rated value	630 A
• at AC-21 B / at 400 V / rated value	630 A
• at AC-21 B / at 240 V / rated value	630 A
• at DC-23 B / at 440 V / rated value / maximum	250 A
• at DC-23 B / at 240 V / rated value / maximum	400 A
• at DC-23 B / at 120 V / rated value / maximum	400 A
• at DC-22 B / at 440 V / rated value / maximum	500 A
• at DC-22 B / at 240 V / rated value / maximum	630 A
• at DC-22 B / at 120 V / rated value / maximum	630 A
• at DC-21 B / at 440 V / rated value / maximum	630 A
• at DC-21 B / at 240 V / rated value / maximum	630 A
• at DC-21 B / at 120 V / rated value / maximum	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
Let-through current / Ic / maximum permissible	
• 400 V	60 000 A
• 500V	60 000 A
cut-off value I**2t,max. / 400 V	4 340 000 A²-s
Main circuit	
Operating current / with capacitive load	
• at 400 V / maximum	72 A
• at 500 V / maximum	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	No
Main switch	No
switch disconnector	Yes

EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

	Product details	
Product feature / interlock	Yes	
Product component		
Trip indicator	No	
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	
— fuse monitoring	Yes	
— Voltage trigger	No	
 Overvoltage protection monitoring 	Yes	

Product function	
Product function	
• fuse monitoring	No
 Overvoltage protection monitoring 	No

Short circuit	
Conditional short-circuit current (Iq)	
• rated value	50 kA
 at AC / at 240 V / with high-speed activation / 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 240 V / rated value 	100 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 	120 300 mm²
• stranded	120 300 mm²
Tightening torque / with screw-type terminals	10 12 N·m
Type of connection	Flat terminal
Type of electrical connection / for main current circuit	busbar connection

Mechanical Design	
Height	306 mm
Width	249.4 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
Net weight	4.63 kg
 during operation 	-25 +55 °C
during storage	-50 +80 °C

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Certificates

Reference code

• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

General Product Approval

Declaration of Conformity

Test Certificates







Miscellaneous



Type Test Certificates/Test Report

I est	Certific-
ates	

Shipping Approval

Special Test Certificate



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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=3NP1163-1DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1DA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1DA10

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









