SIEMENS

Data sheet 3NP1163-1JC13

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for Rittal busbar system 60 mm, flat terminal, Fuse monitoring: electronic EFM20, Cover level 32/70 mm



Model	
Product brand name	SENTRON
Product designation	3NP1 fuse switch disconnector
Design of the product	cover level 32/70 mm
Busbar design	busbar thickness 5 or 10 mm
Design of the safety monitoring	electronic EFM 20
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 Rittal 60 mm busbar system
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 ² ·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
Voltage	
Insulation voltage / rated value	690 V
Power factor / at AC-21 B	0.95
Surge voltage resistance / rated value	8 kV
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
Electricity	
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 /	50 kA
maximum permissible	
Let-through current / Ic / maximum permissible	
• 400 V	60 000 A
• 500V	60 000 A
cut-off value I**2t,max. / 400 V	5 400 000 A²·s
Main circuit	
Operating voltage	
at AC / rated value / minimum	230 V
at AC / rated value / maximum	690 V
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
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Suitability Suitability for use	
Main switch	No
switch disconnector	Yes
EMERGENCY OFF switch	No
	Yes
safety switch maintenance/renair switch	Yes
maintenance/repair switch	165
Product details	
Product feature / interlock	Yes
Product component	v
• Trip indicator	Yes
Phase failure monitoring	Yes
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
Voltage trigger	No
Product function	
Product function	
• fuse monitoring	Yes
 Overvoltage protection monitoring 	Yes
Short circuit	
Conditional short-circuit current (Iq)	
• 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	other
current circuit	

Connectable conductor cross-section / for main	
contacts	
single or multi-stranded / minimum	120 mm²
single or multi-stranded / maximum	300 mm²
• stranded / minimum	120 mm²
stranded / maximum	300 mm²
Tightening torque / with screw-type terminals	
• minimum	10 N·m
• maximum	12 N·m
Type of electrical connection / for main current circuit	busbar connection
•	
Mechanical Design	000
Height	306 mm
Width	249.4 mm
Depth	192.7 mm
Mounting position	horizontal/vertical
Mounting type	busbar
Mounting type	
• floor mounting	No
• front mounting	No
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	Yes
Busbar center-to-center spacing	60 mm
Net weight	6.98 kg
Environmental conditions	
Degree of pollution	2
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	

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• acc. to DIN EN 61346-2

• acc. to DIN EN 81346-2

General Product Approval Declaration of Test Certific-Shipping Ap-Conformity proval ates





Miscellaneous



Type Test Certificates/Test Report



LRS

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=3NP1163-1JC13

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1JC13

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1JC13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





