SIEMENS

Data sheet

3NP1163-1JC12

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH3, 630 A, for Rittal busbar system 60 mm, flat terminal, Fuse monitoring: electronic EFM10, 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 10			
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	60 kA			
permissible				
cut-off value I**2t,max. / 500 V	5 400 000 A²·s			
Power factor				

	0.05
• 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 	IP40
cover	
• with closed switch / without cover or cable lug	IP30
cover	
• 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 / 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	5 400 000 A ² ·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 / TOF AUXILIARY CONTACTS	U Contraction of the second se

Number of NO contacts / for auxiliary contacts	0
Suitability	
Suitability for use	
• 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	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 (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 current circuit	other
Connectable conductor cross-section / for main contacts	
 single or multi-stranded / minimum 	120 mm ²
 single or multi-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 electrical connection / for main current circuit	busbar connection

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	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Proc	duct Approval		Declaration of Conformity	Test Certific- ates	Shipping Ap- proval
		Miscellaneous	EG-Konf.	Type Test Certific- ates/Test Report	Lloyd's Register LRS

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=3NP1163-1JC12

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1163-1JC12

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1163-1JC12

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





