SIEMENS

Data sheet

3NP1123-1JB22

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH000, 160 A, for Rittal busbar system 40 mm, box 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 40 mm busbar system			
Size of disconnecting link	0			
Size of fuse link	NH000			
Continuous current / at 35 °C / rated value	160 A			
Let-through current / with closed switch / maximum	15 kA			
permissible				
cut-off value I**2t,max. / 500 V	56 000 A ² ·s			
Power factor				

	0.65
• at AC-22 B	
• at AC-23 B	0.45
• with capacitive load	-0.25
circuit-breaker / Design	3NP11
Mechanical service life (switching cycles) / typical	2 000
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 cover 	IP30
• on the front	IP40
• open	IP20
Electricity	
Continuous current	
• rated value	100 A
• at 40 °C / rated value	150 A
• at 45 °C / rated value	140 A
● at 50 °C / rated value	130 A
● at 55 °C / rated value	120 A
Let-through current / with high-speed activation / maximum permissible	10 kA
Let-through current / Ic / maximum permissible	
• 400 V	15 000 A
• 500V	15 000 A
cut-off value I**2t,max. / 400 V	56 000 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 / 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	80 kA
 at AC / at 500 V / with high-speed activation / rated value 	80 kA
 at AC / at 690 V / with high-speed activation / rated value 	80 kA
 with closed switch / at AC / at 500 V / rated value 	120 kA
 with closed switch / at AC / at 690 V / rated value 	120 kA
Connections	

Arrangement of electrical connectors / for main current circuit	other		
Connectable conductor cross-section / for main contacts			
 single or multi-stranded / minimum 	1.5 mm ²		
 single or multi-stranded / maximum 	50 mm ²		
 finely stranded / with core end processing / 	1.5 mm ²		
minimum			
 finely stranded / with core end processing / 	35 mm²		
maximum			
• stranded / minimum	1.5 mm ²		
 stranded / maximum 	50 mm ²		
Tightening torque / with screw-type terminals			
• minimum	3.5 N·m		
• maximum	4 N·m		
Type of connectable conductor cross-sections / of the	8 x 8 mm		
laminated conductors / maximum			
Type of electrical connection / for main current circuit	box terminal		
Mechanical Design			
Height	210.4 mm		
Width	88.8 mm		
Depth	166.2 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	40 mm		
Net weight	0.94 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 DII 	N EN 81346-2	Q			
General Pro	duct Approval		Declaration of	Test Certific-	Shipping Ap-
			Conformity	ates	proval
	VDE	<u>Miscellaneous</u>	EG-Konf.	Type Test Certific- ates/Test Report	Lloyd's Register 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=3NP1123-1JB22

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1JB22

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1123-1JB22

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









