SIEMENS

Data sheet 3NP1123-1BB20



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH000, 160A 40MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL

Model	
product brand name	SENTRON
Product designation	Fuse switch disconnector
Design of the product	3-pole
Busbar design	busbar thickness 5 or 10 mm
Design of the operating mechanism	handle unit
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		snap on mount on busbar system Siemens 8US 40
		mm
Size of disconnecting link		000
Size of fuse link		NH000
Continuous current / at 35 °C / Rated value	Α	160
Let-through current / with closed switch / maximum	kA	15
permissible		
cut-off value I**2t,max. / 500 V	A ² ·s	56 000
I2t value / with closed switch / maximum permissible	kA2.s	56
Power factor		
● at AC-22 B		0.65
● 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	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		
 with closed switch / with cover or cable lug 		IP40
cover		IDOO
with closed switch / without cover or cable lug		IP30
cover		IP40
• on the front		IP20
• open		IF2U
Dissipation		
Active power loss		
• maximum	W	9
Electricity		
Continuous current		
Rated value	Α	100
• at 40 °C / Rated value	Α	150
• at 45 °C / Rated value	Α	140
• at 50 °C / Rated value	Α	130
● at 55 °C / Rated value	Α	120
Let-through current / with high-speed activation /	kA	10
maximum permissible		
Let-through current / lc / maximum permissible		
• 400 V	Α	15 000
• 500V	Α	15 000
cut-off value I**2t,max. / 400 V	A ² ·s	56 000
Main circuit		
Operating voltage		
with AC / Rated value / maximum	V	690
• for DC / Rated value	V	440
• for DC / Rated value / maximum	V	440
Operating current		
• at AC-21 B / at 400 V / Rated value	Α	160
• at AC-21 B / at 500 V / Rated value	Α	160
• at AC-21 B / at 690 V / Rated value	Α	160
• at AC-22 B / at 400 V / Rated value	Α	160
• at AC-22 B / at 500 V / Rated value	Α	125

• at AC-22 B / at 690 V / Rated value	Α	50
• at AC-23 B / at 400 V / Rated value	Α	160
• at AC-23 B / at 500 V / Rated value	Α	40
• at AC-23 B / at 690 V / Rated value	Α	25
• at DC-21 B / at 240 V / Rated value / maximum	Α	160
• at DC-21 B / at 440 V / Rated value / maximum	Α	100
• at DC-22 B / at 240 V / Rated value / maximum	Α	100
• at DC-22 B / at 440 V / Rated value / maximum	Α	50
• at DC-23 B / at 240 V / Rated value / maximum	Α	80
• at DC-23 B / at 440 V / Rated value / maximum	Α	25
• with capacitive load / at 400 V / maximum	Α	72
• with capacitive load / at 500 V / maximum	Α	55
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		No
 Phase failure monitoring 		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property / sealable		Yes
Product expansion		
Auxiliary switch		Yes
optional		
— locking capability		Yes
— motor drive		No
DI (:) ::		Yes
 — Phase failure monitoring 		
Phase failure monitoring fuse monitoring		Yes
		Yes No

Product function			
Product function			
• fuse monitoring		No	
 Overvoltage protection monitoring 		No	
Short circuit			
Conditional short-circuit current (Iq)			
Rated value	kA	80	
• with AC / at 500 V / with high-speed activation / Rated value	kA	80	
 with AC / at 690 V / with high-speed activation / Rated value 	kA	80	
 with closed switch / with AC / at 500 V / Rated value 	kA	120	
 with closed switch / with AC / at 690 V / Rated value 	kA	120	
Connections			
Arrangement of electrical connectors / for main		other	
current circuit			
Connectable conductor cross-section / for main contacts			
single or multi-stranded / minimum	mm²	1.5	
• single or multi-stranded / maximum	mm²	50	
 finely stranded / with core end processing / minimum 	mm²	1.5	
 finely stranded / with core end processing / maximum 	mm²	35	
• stranded / minimum	mm²	1.5	
• stranded / maximum	mm²	50	
Tightening torque / with screw-type terminals			
• minimum	N·m	3.5	
• maximum	N·m	4	
Type of connectable conductor cross-section / of the laminated conductors / maximum		8 x 8 mm	
Type of electrical connection / for main current circuit		box terminals	
Mechanical Design			
Height	mm	211.4	
Width	mm	88.8	
Depth	mm	127.6	
mounting position		horizontally or vertically	
Mounting type		busbar mounting	
Mounting type ● floor mounting		No	
- noor mounting		110	

• front mounting		No
 front mounting with 4-hole attachment 		No
 front mounting with central attachment 		No
• rail mounting		Yes
Busbar center-to-center spacing	mm	40

Environmental conditions				
Ambient temperature				
during operation / minimum	°C	-25		
 during operation / maximum 	°C	55		
• during storage / minimum	°C	-50		
during storage / maximum	°C	80		

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2	Q	
• acc. to DIN EN 81346-2	Q	

General Product Approval













Declaration of Conformity	Test Certificates	S	Shipping Ap	oproval	
ϵ	Special Test Certificate	Type Test Certificates/Test Report	<u>jå</u>	[GL	Lloyd's Register
EG-Konf.			DNV	GL	LRS

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11231BB20

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

http://support.automation.siemens.com/WW/view/en/3NP11231BB20/all

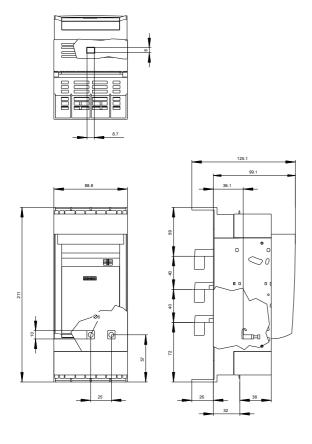
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11231BB20

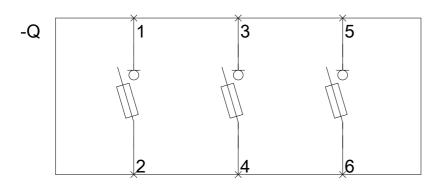
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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