SIEMENS

Data sheet

3NP1123-1BB22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH000, 160A 40MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 10

Vodel		
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 safety monitoring	_	electronic EFM 10
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	А	160
Let-through current / with closed switch / maximum permissible	kA	15
cut-off value I**2t,max. / 500 V	A²·s	56 000
12t value / with closed switch / maximum permissible	kA2.s	56
Power factor		
● at AC-22 B		0.65
● at AC-23 B		0.45
		0.05

 • 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		
 with closed switch / without cover or cable lug 		IP30
cover		
• on the front		IP40
• open		IP20
Dissipation		
Active power loss	_	
• maximum	W	9
	_	
Electricity Continuous current	_	
Rated value	А	100
 at 40 °C / Rated value 	A	150
• at 45 °C / Rated value	A	140
• at 50 °C / Rated value	A	130
• at 55 °C / Rated value	A	120
Let-through current / with high-speed activation /	kA	10
maximum permissible	N-7	10
Let-through current / Ic / maximum permissible	-	
• 400 V	А	15 000
• 500V	А	15 000
cut-off value I**2t,max. / 400 V	A²·s	56 000
Main circuit		
Operating voltage	_	
• with AC / Rated value / minimum	V	230
 with AC / Rated value / maximum 	V	690
Operating current		
• at AC-21 B / at 400 V / Rated value	А	160
• at AC-21 B / at 500 V / Rated value	А	160
• at AC-21 B / at 690 V / Rated value	А	160
• at AC-22 B / at 400 V / Rated value	А	160
• at AC-22 B / at 500 V / Rated value	А	125
• at AC-22 B / at 690 V / Rated value	А	50

• at AC-23 B / at 400 V / Rated value	А	160
• at AC-23 B / at 500 V / Rated value	А	40
• at AC-23 B / at 690 V / Rated value	А	25
 with capacitive load / at 400 V / maximum 	А	72
• with capacitive load / at 500 V / maximum	А	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		Yes
 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
— 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	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	169.2
mounting position		horizontally or vertically
Mounting type		busbar mounting
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	mm	40

Environmental conditions

Ambient temperature

during operation during storage during storage Certificates	/ minimum		°C °C °C	55 -50 80		
 Equipment marking acc. to DIN EN acc. to DIN EN 	81346-2			Q Q		
General Product	t Approval			~		
СВ		GOST			UR	EHE
~	ccc Test Certificates	GOST Shipping A		پ	UR	EHL

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

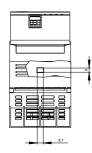
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11231BB22

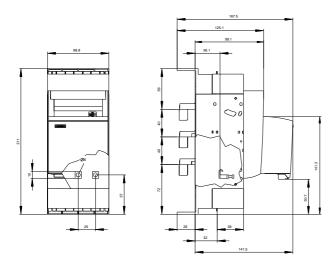
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11231BB22/all

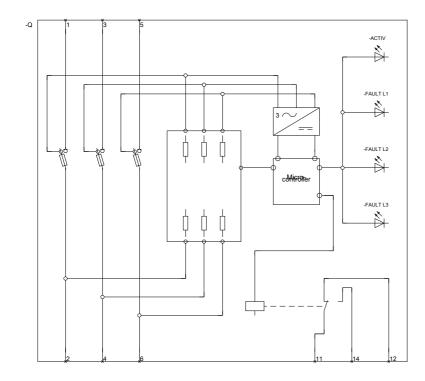
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11231BB22

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

Tender specifications http://ausschreibungstexte.siemens.com/tiplv







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