## **SIEMENS**

Data sheet 3NP1123-1BB23



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH000, 160A 40MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 20

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 safety monitoring	electronic EFM 20			
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 <sup>2</sup> ·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
\/_\t_v_	_	
Voltage Insulation voltage / Rated value	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Cargo voltage resistance / realed value	IX V	ŭ
Protection class		
Protection class IP		
<ul> <li>with closed switch / with cover or cable lug</li> </ul>		IP40
cover		IDOO
<ul> <li>with closed switch / without cover or cable lug cover</li> </ul>		IP30
• on the front		IP40
		IP20
● open		11 20
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	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	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	A	50
- at AO-22 D / at 030 V / Nateu Value		

• 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
• 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
<ul><li>switch disconnector</li></ul>		Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>		No
<ul><li>safety switch</li></ul>		Yes
maintenance/repair switch		Yes
Product details		
Product feature / interlock		Yes
Product component		
Trip indicator		Yes
<ul> <li>Phase failure monitoring</li> </ul>		Yes
<ul> <li>undervoltage release</li> </ul>		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property / sealable		Yes
Product expansion		
<ul> <li>Auxiliary switch</li> </ul>		Yes
• optional		
<ul> <li>locking capability</li> </ul>		Yes
— motor drive		No
— Voltage trigger		No
Product function		
Product function		
• fuse monitoring		Yes
<ul> <li>Overvoltage protection monitoring</li> </ul>		Yes
Short circuit		
Conditional short-circuit current (Iq)		
Rated value	kA	80
<ul> <li>with AC / at 500 V / with high-speed activation / Rated value</li> </ul>	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 current circuit		other
Connectable conductor cross-section / for main contacts		
<ul> <li>single or multi-stranded / minimum</li> </ul>	mm²	1.5
<ul> <li>single or multi-stranded / maximum</li> </ul>	mm²	50
<ul> <li>finely stranded / with core end processing / minimum</li> </ul>	mm²	1.5
<ul> <li>finely stranded / with core end processing / maximum</li> </ul>	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
mounting position		horizontally or vertically
Mounting type		busbar mounting
Mounting type		
• floor mounting		No
• front mounting		No
<ul> <li>front mounting with 4-hole attachment</li> </ul>		No
<ul> <li>front mounting with central attachment</li> </ul>		No
• rail mounting		Yes
Busbar center-to-center spacing	mm	40

Environmental conditions			
Ambient temperature			
<ul> <li>during operation / minimum</li> </ul>	°C	-25	
<ul> <li>during operation / maximum</li> </ul>	°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	Test	Shipping Approval			
Conformity	Certificates				
CE	Type Test Certificates/Test Report	<b>ÅÅ</b> DNV	[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)
<a href="https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11231BB23">https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP11231BB23</a>

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

http://support.automation.siemens.com/WW/view/en/3NP11231BB23/all

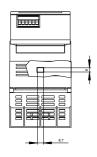
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11231BB23">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11231BB23</a>

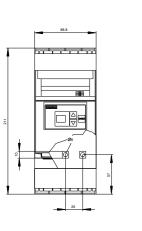
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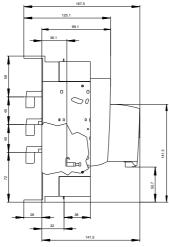
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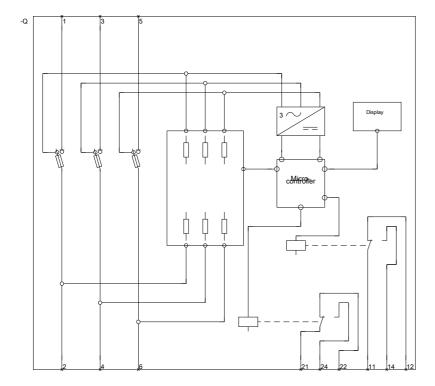
**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv









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