## **SIEMENS**

## Data sheet

## 3NP1123-1JB23

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH000, 160 A, for Rittal busbar system 40 mm, box terminal, Fuse monitoring: electronic EFM20, 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 20		
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 <sup>2</sup> ·s		
Power factor			

a -t 40,000 B	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	
<ul> <li>with closed switch / with cover or cable lug</li> </ul>	IP40
cover	
<ul> <li>with closed switch / without cover or cable lug cover</li> </ul>	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 <sup>2.</sup> s
Moin size uit	
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	0
Number of CO contacts / for auxiliary contacts           Number of NC contacts / for auxiliary contacts	
Number of NC Contacts / 101 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
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	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 feature / sealable	Yes
Product extension	
Auxiliary switch	Yes
• optional	
— locking capability	Yes
— motor drive	No
— Voltage trigger	No
Product function	
Product function	
<ul> <li>fuse monitoring</li> </ul>	Yes
<ul> <li>Overvoltage protection monitoring</li> </ul>	Yes
Short circuit	
Conditional short-circuit current (Iq)	
<ul> <li>rated value</li> </ul>	80 kA
<ul> <li>at AC / at 500 V / with high-speed activation / rated value</li> </ul>	80 kA
<ul> <li>at AC / at 690 V / with high-speed activation / rated value</li> </ul>	80 kA
<ul> <li>with closed switch / at AC / at 500 V / rated value</li> </ul>	120 kA
<ul> <li>with closed switch / at AC / at 690 V / rated value</li> </ul>	120 kA
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>	1.5 mm <sup>2</sup>
<ul> <li>single or multi-stranded / maximum</li> </ul>	50 mm <sup>2</sup>
<ul> <li>finely stranded / with core end processing / minimum</li> </ul>	1.5 mm²
<ul> <li>finely stranded / with core end processing / maximum</li> </ul>	35 mm²
• stranded / minimum	1.5 mm <sup>2</sup>
<ul> <li>stranded / maximum</li> </ul>	50 mm <sup>2</sup>
Tightening torque / with screw-type terminals	
• minimum	3.5 N·m
• maximum	4 N·m
Type of connectable conductor cross-sections / of the laminated conductors / maximum	8 x 8 mm
Type of electrical connection / for main current circuit	box terminal
Mechanical Design	
Height	210.4 mm
	00.0

Width	88.8 mm
Depth	166.2 mm
Mounting position	horizontal/vertical
Mounting type	busbar
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	40 mm
Net weight	0.94 kg

Environmental conditions	
Degree of pollution	2
Ambient temperature	
<ul> <li>during operation / minimum</li> </ul>	-25 °C
<ul> <li>during operation / maximum</li> </ul>	55 °C
<ul> <li>during storage / minimum</li> </ul>	-50 °C
<ul> <li>during storage / maximum</li> </ul>	80 °C
Certificates	
Reference code	
• acc. to DIN EN 61346-2	Q

• acc. to DIN EN 81346-2 Q

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

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=3NP1123-1JB23

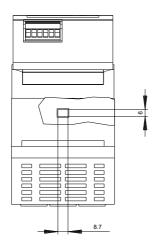
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1JB23

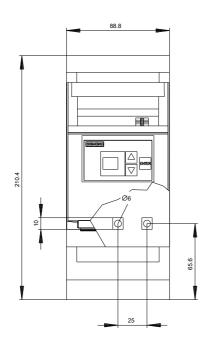
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1123-1JB23

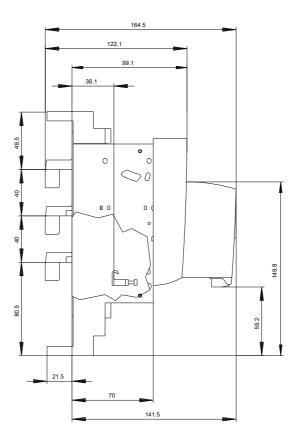
**CAx-Online-Generator** http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







11/14/2018

