## **SIEMENS**

## Data sheet

## 3NP1133-1JC23

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for Rittal busbar system 60 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 60 mm busbar system		
Size of disconnecting link	00 and 000		
Size of fuse link	NH000, NH00		
Continuous current / at 35 °C / rated value	160 A		
Let-through current / with closed switch / maximum permissible	23 kA		
cut-off value I**2t,max. / 500 V	158 000 A <sup>2</sup> ·s		
Power factor			

	0.05
• at AC-22 B	0.65
• at AC-23 B	0.45
<ul> <li>with capacitive load</li> </ul>	-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</li> </ul>	IP30
cover	
• on the front	IP40
• open	IP20
Electricity	
Continuous current	
• rated value	160 A
● at 40 °C / rated value	155 A
● at 45 °C / rated value	145 A
• at 50 °C / rated value	140 A
• at 55 °C / rated value	133 A
Let-through current / with high-speed activation / maximum permissible	15 kA
Let-through current / Ic / maximum permissible	
• 400 V	23 000 A
• 500V	23 000 A
cut-off value I**2t,max. / 400 V	158 000 A <sup>2.</sup> s
Main aircuit	
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
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	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	
<ul> <li>Auxiliary switch</li> </ul>	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)	
• rated value	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	
single or multi-stranded / minimum	6 mm²
-	70 mm <sup>2</sup>
<ul> <li>single or multi-stranded / maximum</li> </ul>	
<ul> <li>finely stranded / with core end processing / minimum</li> </ul>	6 mm <sup>2</sup>
<ul> <li>finely stranded / with core end processing / maximum</li> </ul>	50 mm²
• stranded / minimum	6 mm²
<ul> <li>stranded / maximum</li> </ul>	70 mm <sup>2</sup>
Tightening torque / with screw-type terminals	
• minimum	10 N·m
• maximum	10 N·m
Type of electrical connection / for main current circuit	box terminal

Mechanical Design				
Height	215.1 mm			
Width	105.8 mm			
Depth	174.2 mm			
Mounting position	horizontal/vertical			
Mounting type	busbar			
Mounting type				
<ul> <li>floor mounting</li> </ul>	No			
<ul> <li>front mounting</li> </ul>	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	60 mm			
Net weight	1.12 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=3NP1133-1JC23

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1JC23

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1133-1JC23

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

**Tender specifications** 

http://www.siemens.com/specifications









