# **SIEMENS**

Data sheet 3NP1133-1BC10

SENTRON, fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for 60mm 8US busbar system, Flachanschluss, 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	Without
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 60 mm 8US 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 A²·s
Power factor	

0.65 0.45 -0.25 3NP11 2 000 LV HRC fuse	<ul> <li>at AC-22 B</li> <li>at AC-23 B</li> <li>with capacitive load</li> <li>circuit-breaker / Design</li> </ul>
-0.25 3NP11 2 000	with capacitive load
3NP11 2 000	
2 000	circuit-breaker / Design
LV HRC fuse	Mechanical service life (switching cycles) / typical
	Fuse system
	Voltage
690 V	Insulation voltage / rated value
0.95	Power factor / at AC-21 B
8 kV	Surge voltage resistance / rated value
	Protection class
	Protection class IP
IP40	with closed switch / with cover or cable lug cover
IP30	<ul> <li>with closed switch / without cover or cable lug cover</li> </ul>
IP40	• on the front
IP20	• open
	Dissipation
	<u>`</u>
4 W	• for rated value of the current / at AC / in hot
12 W	• maximum
	Electricity
	Continuous current
160 A	• rated value
155 A	• at 40 °C / rated value
145 A	● at 45 °C / rated value
140 A	● at 50 °C / rated value
133 A	● at 55 °C / rated value
15 kA	Let-through current / with high-speed activation / maximum permissible
	Let-through current / Ic / maximum permissible
23 000 A	• 400 V
23 000 A	• 500V
	cut-off value I**2t,max. / 400 V
158 000 A²·s	
158 000 A²·s	Main circuit
158 000 A²·s	
158 000 A²·s 690 V	Main circuit
	Main circuit Operating voltage
160 A 155 A 145 A 140 A 133 A	operating state / per pole  • maximum  Electricity  Continuous current  • rated value  • at 40 °C / rated value  • at 45 °C / rated value  • at 50 °C / rated value  • at 50 °C / rated value

Operating current / with capacitive load		
• at 400 V / maximum	72 A	
• at 500 V / maximum	55 A	
Suitability		
Suitability for use		
Main switch	No	
<ul><li>switch disconnector</li></ul>	Yes	
<ul> <li>EMERGENCY OFF switch</li> </ul>	No	
safety switch	Yes	
• maintenance/repair switch	Yes	
Product details		
Product feature / interlock	Yes	
Product component		
Trip indicator	No	
<ul> <li>Phase failure monitoring</li> </ul>	No	
undervoltage release	No	
<ul> <li>undervoltage release with leading contact</li> </ul>	No	
Product feature / sealable	Yes	
Product extension		
<ul> <li>Auxiliary switch</li> </ul>	Yes	
<ul><li>optional</li></ul>		
<ul><li>— locking capability</li></ul>	Yes	
— motor drive	No	
<ul> <li>— Phase failure monitoring</li> </ul>	Yes	
— fuse monitoring	Yes	
<ul><li>Voltage trigger</li></ul>	No	
<ul> <li>Overvoltage protection monitoring</li> </ul>	Yes	
Product function		
Product function		
<ul><li>fuse monitoring</li></ul>	No	
Overvoltage protection monitoring	No	
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	

• with closed switch / at AC / at 690 V / rated value

120 kA

Connections		
Arrangement of electrical connectors / for main	other	
current circuit		
Connectable conductor cross-section / for main		
contacts	0.52	
single or multi-stranded / minimum	2.5 mm <sup>2</sup>	
• single or multi-stranded / maximum	95 mm²	
• stranded / minimum	2.5 mm <sup>2</sup>	
• stranded / maximum	95 mm²	
Tightening torque / with screw-type terminals		
• minimum	10 N·m	
• maximum	12 N·m	
Type of electrical connection / for main current circuit	busbar connection	
Mechanical Design		
Height	210.4 mm	
Width	105.8 mm	
Depth	137.5 mm	
Mounting position	horizontal/vertical	
Mounting type	busbar	
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	60 mm	
Net weight	0.98 kg	
Environmental conditions		
Degree of pollution	3	
Ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	55 °C	
during storage / minimum	-50 °C	
during storage / maximum	80 °C	
Certificates		
Equipment marking		
• acc. to DIN EN 61346-2	Q	
• acc. to DIN EN 81346-2	Q	
▼ acc. to Din En 01940-2	<b>~</b>	

#### **General Product Approval**

## **Declaration of** Conformity

### **Test Certificates**









Type Test Certificates/Test Report

**Special Test** Certificate

### **Shipping Approval**



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=3NP1133-1BC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1BC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1133-1BC10">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1133-1BC10</a>

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications



