## **SIEMENS**

Product data sheet 3NP1133-1BC22

## Number of poles



3

FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A 60MM BUSBAR SYSTEM COVER LEVEL 32/70 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 10

Similar to image

General technical details:			
product brand name	SENTRON		
Product designation	Fuse switch disconnector		
Fuse system	LV HRC fuse		
Installation size of fuse-link	NH000, NH00		
Installation size of disconnecting link	00 and 000		
Type from device	Zum Aufschnappen auf Sammelschienensystem Siemens 8US 60 mm		
Design of the product	3-pole		
Busbar design	Sammelschienendicke 5 oder 10 mm		
Design of the operating mechanism	handle unit		
Type of the driving mechanism / motor drive	No		
Design of the safety monitoring	elektronisch EFM10		
Number of NC contacts / for auxiliary contacts	0		
Number of NO contacts / for auxiliary contacts	0		
Number of changeover contacts / for auxiliary contacts	0		
Design of the load switch / Strip form	No		
Product equipment / interlock	Yes		

Product feature / sealable		Yes
Product component		
phase failure monitoring		No
undervoltage release mechanism		No
undervoltage release with leading contact		No
trip indicator		Yes
Acceptability for application		
switch disconnector		Yes
emergency stop switch		No
main switch		No
safety cut-out switch		Yes
maintenance/repair switch		Yes
Product function		
fuse monitoring		Yes
overvoltage protection monitoring		No
Product extension		
auxiliary switch		Yes
• optional		
phase failure monitoring		Yes
voltage trigger		No
overvoltage protection monitoring		Yes
<ul> <li>locking capability</li> </ul>		Yes
motor drive		No
Continuous current		
• rated value	Α	160
• at 35 °C / rated value	Α	160
• at 40 °C / rated value	Α	155
• at 45 °C / rated value	А	145
• at 50 °C / rated value	А	140
• at 55 °C / rated value	А	133
Operating current		
• at AC-21 B		
• at 400 V / rated value	Α	160
• at 500 V / rated value	Α	160
• at 690 V / rated value	Α	160
• at AC-22 B		
at 400 V / rated value	Α	160
at 500 V / rated value	Α	160
at 690 V / rated value	Α	125
• at AC-23 B		

. at 500 V / rated value         A         63           . at 690 V / rated value         A         35           . with capacitive load         -         -           . at 400 V / maximum         A         72           . at 500 V / maximum         A         55           Let-through current         -         -           . with pacedy activation / maximum permissible         kA         15           . with closed switch / maximum permissible         kA         23           Conditional short-circuit current (tq)         -         -           . rated value         kA         80           . at 500 V / with AC / with speedy activation / rated value         kA         80           . at 690 V / with AC / with speedy activation / rated value         kA         80           . at 500 V / with AC / rated value         kA         120           . at 690 V / with AC / rated value         kA         120           . at 690 V / with AC / rated value         kA         120           . at AC-21 B         0.95         0.85           . at AC-22 B         0.85         0.85           . at AC-23 B         0.45         0.25           . Active power loss / maximum         W         12           Imu	• at 400 V / rated value	Α	160
• with capacitive load         at 400 V / maximum         A         72           • at 500 V / maximum         A         55           Let-through current	• at 500 V / rated value	Α	63
• at 400 V / maximum       A       72         • at 500 V / maximum       A       55         Let-through current       ***       ***         • with closed switch / maximum permissible       kA       15         • with closed switch / maximum permissible       kA       23         Conditional short-circuit current (lq)       ***       ***         • rated value       kA       80         • at 500 V / with AC / with speedy activation / rated value       kA       80         • at 690 V / with AC / with speedy activation / rated value       kA       80         • with closed switch       ***       4       80         • with closed switch       ***       4       80         • with closed switch       ***       80       ***       80         • with closed switch       ***       80       ***	• at 690 V / rated value	Α	35
Let-through current  · with speedy activation / maximum permissible · with closed switch / maximum permissible  · with closed switch / maximum permissible  · with closed switch / maximum permissible  · rated value · rated value · at 500 V / with AC / with speedy activation / rated value · at 690 V / with AC / with speedy activation / rated value · at 690 V / with AC / rated value · with closed switch · at 500 V / with AC / rated value · with closed switch · at 690 V / with AC / rated value · at 690 V / with AC / rated value  · at 690 V / with AC / rated value  V 230 690  Power factor · at AC-21 B · at AC-22 B · at AC-22 B · with capacitive load  Active power loss / maximum  W 12  Insulation voltage / rated value  Insulation voltage / rated value  It value / with closed switch / maximum permissible  Item designation · according to DIN EN 81346-2	with capacitive load		
Let-through current  • with speedy activation / maximum permissible • with closed switch / maximum permissible  • with closed switch / maximum permissible  • rated value • at 500 V / with AC / with speedy activation / rated value • at 690 V / with AC / with speedy activation / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at 690 V / with AC / rated value • at AC-21 B • at AC-22 B • at AC-22 B • at AC-23 B • with capacitive load • active power loss / maximum  W 12  Insulation voltage / rated value  V 690  Impulse voltage resistance / rated value  kA 2  Rate designation • according to DIN EN 61346-2	• at 400 V / maximum	Α	72
with speedy activation / maximum permissible     with closed switch / maximum permissible     with closed switch / maximum permissible     in rated value     in at 500 V / with AC / with speedy activation / rated value     in at 500 V / with AC / with speedy activation / rated value     in at 500 V / with AC / with speedy activation / rated value     in at 500 V / with AC / rated value     in at 500 V / with AC / rated value     in at 690 V / with AC / rated value     in at 690 V / with AC / rated value     in at AC -21 B     in at AC -22 B     in at AC -23 B     in with capacitive load     Active power loss / maximum     in with capacitive load     Active power loss / maximum     in with capacitive load     in with	• at 500 V / maximum	Α	55
with closed switch / maximum permissible     kA 23  Conditional short-circuit current (Iq)     rated value     kA 80     at 500 V / with AC / with speedy activation / rated value     kA 80     at 690 V / with AC / with speedy activation / rated value     with closed switch     at 500 V / with AC / rated value     kA 120  Tension d'emploi     for AC / rated value     vat AC-21 B     at AC-22 B     at AC-23 B     with capacitive load  Active power loss / maximum     W 12  Insulation voltage / rated value  RA 23   KA 80   80  80  80  80  80  80  80  80  80	Let-through current		
Conditional short-circuit current (Iq)  • rated value  • at 500 V / with AC / with speedy activation / rated value  • at 690 V / with AC / with speedy activation / rated value  • at 690 V / with AC / rated value  • at 500 V / with AC / rated value  • at 690 V / with AC / rated value  • at 690 V / with AC / rated value  • at 690 V / with AC / rated value  • at 690 V / with AC / rated value  • v 230 690  Power factor  • at AC-21 B  • at AC-22 B  • at AC-22 B  • at AC-23 B  • with capacitive load  Active power loss / maximum  W 12  Insulation voltage / rated value  V 690  Impulse voltage resistance / rated value  • kA²-s  Item designation  • according to DIN EN 61346-2	with speedy activation / maximum permissible	kA	15
• rated value       kA       80         • at 500 V / with AC / with speedy activation / rated value       kA       80         • with closed switch       kA       80         • with closed switch / rated value       kA       120         • at 500 V / with AC / rated value       kA       120         • at 690 V / with AC / rated value       V       230 690         Power factor         • at AC-21 B       0.95         • at AC-22 B       0.65         • at AC-23 B       0.45         • with capacitive load       -0.25         Active power loss / maximum       W       12         Insulation voltage / rated value       V       690         Impulse voltage resistance / rated value       kV       8         12t value / with closed switch / maximum permissible       kA²-s       158         Item designation       -according to DIN EN 61346-2       Q	with closed switch / maximum permissible	kA	23
<ul> <li>at 500 V / with AC / with speedy activation / rated value</li> <li>at 690 V / with AC / with speedy activation / rated value</li> <li>with closed switch</li> <li>at 500 V / with AC / rated value</li> <li>tat 500 V / with AC / rated value</li> <li>tat 690 V / with AC / rated value</li> <li>kA 120</li> </ul> Tension d'emploi <ul> <li>for AC / rated value</li> <li>V 230 690</li> </ul> Power factor <ul> <li>at AC-21 B</li> <li>at AC-22 B</li> <li>at AC-22 B</li> <li>with capacitive load</li> <li>Active power loss / maximum</li> <li>W 12</li> </ul> Insulation voltage / rated value <ul> <li>V 690</li> </ul> Impulse voltage resistance / rated value <ul> <li>kV 8</li> </ul> Item designation <ul> <li>according to DIN EN 61346-2</li> </ul> Q	Conditional short-circuit current (Iq)		
<ul> <li>at 690 V / with AC / with speedy activation / rated value</li> <li>with closed switch</li> <li>at 500 V / with AC / rated value</li> <li>kA 120</li> <li>tat 690 V / with AC / rated value</li> <li>kA 120</li> </ul> Tension d'emploi <ul> <li>for AC / rated value</li> <li>V 230 690</li> </ul> Power factor <ul> <li>at AC-21 B</li> <li>at AC-22 B</li> <li>at AC-22 B</li> <li>with capacitive load</li> <li>Active power loss / maximum</li> <li>W 12</li> </ul> Insulation voltage / rated value <ul> <li>V 690</li> </ul> Impulse voltage resistance / rated value <ul> <li>kV 8</li> </ul> Item designation <ul> <li>according to DIN EN 61346-2</li> </ul> Q	rated value	kA	80
• with closed switch       kA       120         • at 690 V / with AC / rated value       kA       120         Tension d'emploi         • for AC / rated value       V       230 690         Power factor         • at AC-21 B       0.95         • at AC-22 B       0.65         • at AC-23 B       0.45         • with capacitive load       -0.25         Active power loss / maximum       W       12         Insulation voltage / rated value       V       690         Impulse voltage resistance / rated value       kV       8         Izt value / with closed switch / maximum permissible       kA²-s       158         Item designation       -according to DIN EN 61346-2       Q	$\bullet$ at 500 V / with AC / with speedy activation / rated value	kA	80
• at 500 V / with AC / rated value       kA       120         • at 690 V / with AC / rated value       kA       120         Tension d'emploi         • for AC / rated value       V       230 690         Power factor         • at AC-21 B       0.95         • at AC-22 B       0.65         • at AC-23 B       0.45         • with capacitive load       -0.25         Active power loss / maximum         W       12         Insulation voltage / rated value       V       690         Impulse voltage resistance / rated value       kV       8         Item designation       kA2-s       158         Item designation       - according to DIN EN 61346-2       Q	$\bullet$ at 690 V / with AC / with speedy activation / rated value	kA	80
• at 690 V / with AC / rated value  Tension d'emploi • for AC / rated value  V 230 690  Power factor • at AC-21 B • at AC-22 B • at AC-23 B • with capacitive load  Active power loss / maximum  Insulation voltage / rated value  Insulation voltage resistance / rated value  Item designation • according to DIN EN 61346-2	with closed switch		
Tension d'emploi         v         230 690           Power factor         690           • at AC-21 B         0.95           • at AC-22 B         0.65           • at AC-23 B         0.45           • with capacitive load         -0.25           Active power loss / maximum         W         12           Insulation voltage / rated value         V         690           Impulse voltage resistance / rated value         kV         8           I2t value / with closed switch / maximum permissible         kA <sup>2</sup> ·s         158           Item designation         - according to DIN EN 61346-2         Q	• at 500 V / with AC / rated value	kA	120
• for AC / rated value         V         230 690           Power factor             • at AC-21 B         0.95            • at AC-22 B         0.65            • with capacitive load         -0.25            Active power loss / maximum         W         12           Insulation voltage / rated value         V         690           Impulse voltage resistance / rated value         kV         8           I2t value / with closed switch / maximum permissible         kA²-s         158           Item designation          Q	• at 690 V / with AC / rated value	kA	120
Power factor         at AC-21 B         0.95           • at AC-22 B         0.65           • at AC-23 B         0.45           • with capacitive load         -0.25           Active power loss / maximum         W         12           Insulation voltage / rated value         V         690           Impulse voltage resistance / rated value         kV         8           I2t value / with closed switch / maximum permissible         kA²-s         158           Item designation         Q	Tension d'emploi		
<ul> <li>at AC-21 B</li> <li>at AC-22 B</li> <li>at AC-23 B</li> <li>with capacitive load</li> <li>-0.25</li> <li>Active power loss / maximum</li> <li>W</li> <li>12</li> <li>Insulation voltage / rated value</li> <li>V</li> <li>690</li> <li>Impulse voltage resistance / rated value</li> <li>kV</li> <li>8</li> <li>I2t value / with closed switch / maximum permissible</li> <li>kA<sup>2</sup>·s</li> <li>158</li> <li>Item designation</li> <li>according to DIN EN 61346-2</li> <li>Q</li> </ul>	• for AC / rated value	V	230 690
<ul> <li>at AC-22 B</li> <li>at AC-23 B</li> <li>with capacitive load</li> <li>-0.25</li> <li>Active power loss / maximum</li> <li>W</li> <li>12</li> <li>Insulation voltage / rated value</li> <li>W</li> <li>690</li> <li>Impulse voltage resistance / rated value</li> <li>kV</li> <li>8</li> <li>I2t value / with closed switch / maximum permissible</li> <li>kA<sup>2</sup>·s</li> <li>158</li> <li>Item designation</li> <li>according to DIN EN 61346-2</li> <li>Q</li> </ul>	Power factor		
<ul> <li>at AC-23 B</li> <li>with capacitive load</li> <li>-0.25</li> <li>Active power loss / maximum</li> <li>W</li> <li>12</li> <li>Insulation voltage / rated value</li> <li>V</li> <li>690</li> <li>Impulse voltage resistance / rated value</li> <li>kV</li> <li>8</li> <li>I2t value / with closed switch / maximum permissible</li> <li>kA<sup>2</sup>·s</li> <li>158</li> <li>Item designation</li> <li>according to DIN EN 61346-2</li> <li>Q</li> </ul>	• at AC-21 B		0.95
<ul> <li>with capacitive load</li> <li>Active power loss / maximum</li> <li>W</li> <li>12</li> <li>Insulation voltage / rated value</li> <li>V</li> <li>690</li> <li>Impulse voltage resistance / rated value</li> <li>kV</li> <li>8</li> <li>I2t value / with closed switch / maximum permissible</li> <li>kA²-s</li> <li>158</li> <li>Item designation</li> <li>according to DIN EN 61346-2</li> <li>Q</li> </ul>	• at AC-22 B		0.65
Active power loss / maximum  W 12  Insulation voltage / rated value  V 690  Impulse voltage resistance / rated value  kV 8  I2t value / with closed switch / maximum permissible  kA²-s 158  Item designation  • according to DIN EN 61346-2  Q	• at AC-23 B		0.45
Insulation voltage / rated value  V 690  Impulse voltage resistance / rated value  kV 8  I2t value / with closed switch / maximum permissible  kA²·s 158  Item designation  • according to DIN EN 61346-2  Q	with capacitive load		-0.25
Impulse voltage resistance / rated value kV 8  I2t value / with closed switch / maximum permissible kA²·s 158  Item designation  • according to DIN EN 61346-2 Q	Active power loss / maximum	W	12
12t value / with closed switch / maximum permissible   kA²-s   158     Item designation	Insulation voltage / rated value	V	690
Item designation  • according to DIN EN 61346-2  Q	Impulse voltage resistance / rated value	kV	8
• according to DIN EN 61346-2 Q	I2t value / with closed switch / maximum permissible	kA <sup>2</sup> ·s	158
	Item designation		
according to DIN EN 81346-2     Q	according to DIN EN 61346-2		Q
	according to DIN EN 81346-2		Q

Connection elements and terminals:		
Design of the electrical connection / for main current circuit		box terminals
Conductor cross section that can be connected / for main contacts		
single- or multi-stranded	mm²	6 70
• stranded	mm²	6 70
stranded wire / with conductor end processing	mm²	6 50
Type of connectable conductor cross-sections / of laminated conductors		
• maximum		9 x 8 mm

Tightening torque						
with screw-type terminals	N·m	10 10				
Arrangement of electrical connectors / for main current circuit		sonstige				
Degree of protection and safety class:	Degree of protection and safety class:					
IP degree of protection						
• open		IP20				
• on the front		IP40				
with closed switch						
without cover or cable lug cover		IP30				
• with cover or cable lug cover		IP40				
Degree of pollution		3				
Mechanical operating cycles as operating time / typical		2,000				
Ambient conditions:						
Ambient temperature						
during operating	°C	-25 +55				
during storage	°C	-50 +80				
Installation/mounting/dimensions:						
Mounting type		busbar mounting				
rail mounting		Yes				
front mounting		No				
front mounting with central attachment		No				
front mounting with 4-hole attachment		No				
floor mounting		No				
mounting position		waagerecht oder senkrecht				
Width	mm	105.8				
Height	mm	210.4				
Depth	mm	177.4				
Largeur						
• du jeu de barres	mm	12 30				
Center line spacing	mm	60				
Net weight	kg	1.12				
Certificates/approvals:						

## **General Product Approval**

Declaration of Conformity













CB
Test Certificates

**Shipping Approval** 

Type Test
Certificates/Test
Report







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/3NP1133-1BC22

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

http://support.automation.siemens.com/WW/view/en/3NP1133-1BC22/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

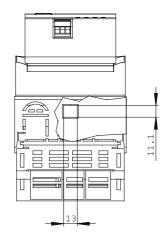
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1133-1BC22

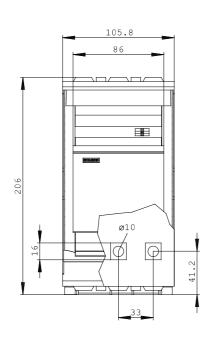
**CAx-Online-Generator** 

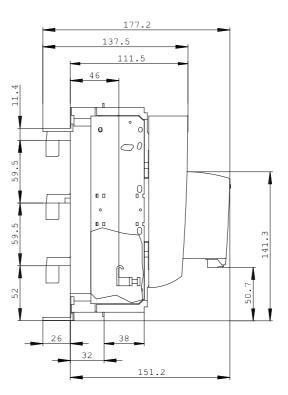
http://www.siemens.com/cax

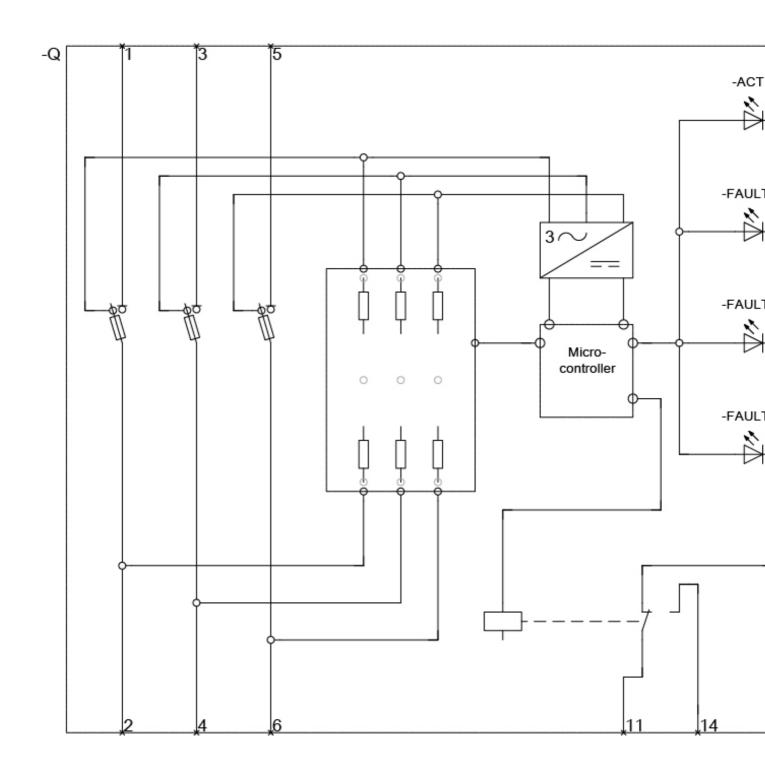
Tender specifications

Datanorm GAEB81 GAEB83 RTF TXT









last change: Mar 31, 2014