# **SIEMENS**

### Data sheet

## 3NP1133-1CA22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A MOUNTING PLATE CONSTRUCTION COVER LEVEL 45 MM BOX TERMINAL FUSE MONITORING ELECTRONIC, EFM 10

Model	
product brand name	SENTRON
Product designation	Fuse switch disconnector
Design of the product	3-pole
Design of the safety monitoring	electronic EFM 10
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		Construction and installation
Size of disconnecting link		00 and 000
Size of fuse link		NH000, NH00
Continuous current / at 35 °C / Rated value	А	160
Let-through current / with closed switch / maximum permissible	kA	23
cut-off value I**2t,max. / 500 V	A²·s	158 000
I2t value / with closed switch / maximum permissible	kA2.s	158
Power factor		
• 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	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		
<ul> <li>with closed switch / with cover or cable lug cover</li> </ul>		IP40
<ul> <li>with closed switch / without cover or cable lug cover</li> </ul>		IP30
• on the front		IP40
• open		IP20
Dissipation		
Active power loss		
• maximum	W	12
Electricity		
Continuous current		
Rated value	А	160
• at 40 °C / Rated value	А	155
● at 45 °C / Rated value	А	145
• at 50 °C / Rated value	А	140
• at 55 °C / Rated value	А	133
Let-through current / with high-speed activation / maximum permissible	kA	15
Let-through current / Ic / maximum permissible		
• 400 V	А	23 000
• 500V	А	23 000
cut-off value I**2t,max. / 400 V	A²·s	158 000
Main circuit		
Operating voltage		
<ul> <li>with AC / Rated value / minimum</li> </ul>	V	230
<ul> <li>with AC / Rated value / maximum</li> </ul>	V	690
Operating current		
• at AC-21 B / at 400 V / Rated value	А	160
• at AC-21 B / at 500 V / Rated value	А	160
• at AC-21 B / at 690 V / Rated value	А	160
• at AC-22 B / at 400 V / Rated value	А	160
• at AC-22 B / at 500 V / Rated value	А	160
• at AC-22 B / at 690 V / Rated value	А	125
• at AC-23 B / at 400 V / Rated value	А	160
• at AC-23 B / at 500 V / Rated value	А	63

a at AC 22 B / at C00 V / Datad value	А	35
at AC-23 B / at 690 V / Rated value	A	72
• with capacitive load / at 400 V / maximum		
<ul> <li>with capacitive load / at 500 V / maximum</li> </ul>	A	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
EMERGENCY OFF switch		No
<ul> <li>safety switch</li> </ul>		Yes
maintenance/repair switch		Yes
Product details	_	
Product details Product feature / interlock		Yes
Product component		
• Trip indicator		Yes
Phase failure monitoring		No
undervoltage release		No
<ul> <li>undervoltage release with leading contact</li> </ul>		No
Product property / sealable		Yes
Product expansion		
Auxiliary switch		Yes
• optional		
— locking capability		Yes
— motor drive		No
— Phase failure monitoring		Yes
— Voltage trigger		No
— Overvoltage protection monitoring		Yes
Product function		
Product function		
• fuse monitoring		Yes
<ul> <li>Overvoltage protection monitoring</li> </ul>		No
Short circuit		
Conditional short-circuit current (Iq)		
Rated value	kA	80
<ul> <li>with AC / at 500 V / with high-speed activation /</li> </ul>	kA	80
Rated value		

<ul> <li>with AC / at 690 V / with high-speed activation / Rated value</li> </ul>	kA	80
<ul> <li>with closed switch / with AC / at 500 V / Rated value</li> </ul>	kA	120
<ul> <li>with closed switch / with AC / at 690 V / Rated value</li> </ul>	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	6
<ul> <li>single or multi-stranded / maximum</li> </ul>	mm²	70
<ul> <li>finely stranded / with core end processing / minimum</li> </ul>	mm²	6
<ul> <li>finely stranded / with core end processing / maximum</li> </ul>	mm²	50
• stranded / minimum	mm²	6
<ul> <li>stranded / maximum</li> </ul>	mm²	70
Tightening torque / with screw-type terminals	-	
• minimum	N∙m	10
• maximum	N∙m	10
Type of connectable conductor cross-section / of the laminated conductors / maximum		9 x 8 mm
Type of electrical connection / for main current circuit		box terminals

Mechanical Design				
Height	mm	202		
Width	mm	105.8		
Depth	mm	126.4		
mounting position		horizontally or vertically		
Mounting type		floor mounting		
Mounting type				
• floor mounting		Yes		
• 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		No		
Environmental conditions				
Ambient temperature				
<ul> <li>during operation / minimum</li> </ul>	°C	-25		
<ul> <li>during operation / maximum</li> </ul>	°C	55		
<ul> <li>during storage / minimum</li> </ul>	°C	-50		

<ul> <li>during storage</li> </ul>	/ maximum		°C 80			
Certificates						
Equipment marking						
<ul> <li>acc. to DIN EN</li> </ul>	l 61346-2		Q			
<ul> <li>acc. to DIN EN</li> </ul>	81346-2		Q			
General Produc	t Approval					
CB		GOST			EHC	
Declaration of Conformity	Test	Shipping Approval				
EG-Konf.	<u>Type Test</u> Certificates/Test <u>Report</u>		GL	Llovd's Kegister LRS		

#### 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/3NP11331CA22

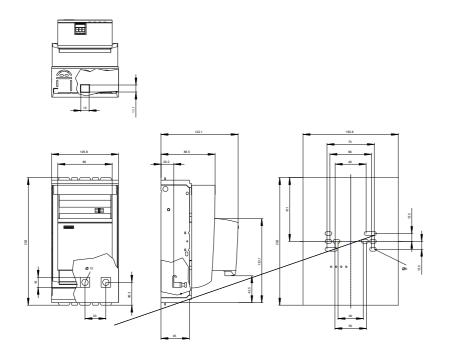
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11331CA22/all

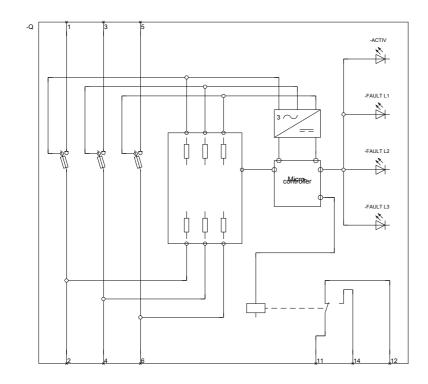
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11331CA22

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

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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