SIEMENS

Data sheet 3NP1133-1CA12



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH00, 160A MOUNTING PLATE CONSTRUCTION COVER LEVEL 45 MM FLAT CONNECTOR 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	Α	160
Let-through current / with closed switch / maximum permissible	kA	23
cut-off value I**2t,max. / 500 V	A ² ·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
 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	V	690
Power factor / at AC-21 B		0.95
Surge voltage resistance / Rated value	kV	8
Protection class		
Protection class IP		
with closed switch / with cover or cable lug		IP40
cover		
 with closed switch / without cover or cable lug 		IP30
cover		ID40
• on the front		IP40
• open		IP20
Dissipation		
Active power loss		
• maximum	W	12
Electricity		
Continuous current		
Rated value	Α	160
• at 40 °C / Rated value	Α	155
• at 45 °C / Rated value	Α	145
• at 50 °C / Rated value	Α	140
● at 55 °C / Rated value	Α	133
Let-through current / with high-speed activation / maximum permissible	kA	15
Let-through current / Ic / maximum permissible		
• 400 V	Α	23 000
• 500V	Α	23 000
cut-off value I**2t,max. / 400 V	A ² ·s	158 000
Main circuit		
Operating voltage		
with AC / Rated value / minimum	V	230
with AC / Rated value / maximum	V	690
Operating current		
• at AC-21 B / at 400 V / Rated value	Α	160
• at AC-21 B / at 500 V / Rated value	Α	160
• at AC-21 B / at 690 V / Rated value	Α	160
• at AC-22 B / at 400 V / Rated value	Α	160
• at AC-22 B / at 500 V / Rated value	Α	160
• at AC-22 B / at 690 V / Rated value	Α	125
• at AC-23 B / at 400 V / Rated value	Α	160
• at AC-23 B / at 500 V / Rated value	Α	63
at AC-23 b / at 300 v / Nated Value	7.	

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• at AC-23 B / at 690 V / Rated value	A	35
 with capacitive load / at 400 V / maximum 	A	72
 with capacitive load / at 500 V / maximum 	Α	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
switch disconnector		Yes
 EMERGENCY OFF switch 		No
• safety switch		Yes
maintenance/repair switch		Yes
Product details		
Product feature / interlock		Yes
Product component		
Trip indicator		Yes
Phase failure monitoring		No
undervoltage release		No
undervoltage release with leading contact		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
 Overvoltage protection monitoring 		No
Short circuit		
Conditional short-circuit current (Iq)		
Rated value	kA	80
• with AC / at 500 V / with high-speed activation /	kA	80
Rated value		

 with AC / at 690 V / with high-speed activation / Rated value 	kA	80
 with closed switch / with AC / at 500 V / Rated value 	kA	120
• with closed switch / with AC / at 690 V / Rated value	kA	120
Connections		
Arrangement of electrical connectors / for main current circuit		other
Connectable conductor cross-section / for main contacts		
 single or multi-stranded / minimum 	mm²	2.5
 single or multi-stranded / maximum 	mm²	95
• stranded / minimum	mm²	2.5
• stranded / maximum	mm²	95
Tightening torque / with screw-type terminals		
• minimum	N·m	10
• maximum	N·m	12
Type of electrical connection / for main current circuit		flat connector
Mechanical Design		
Height	mm	202
Width	mm	105.8
Depth	mm	126.4
mounting position		horizontally or vertically
Mounting type		floor mounting
Mounting type		Yes
• floor mounting		No
• front mounting		
• front mounting with 4-hole attachment		No No
front mounting with central attachment		No
• rail mounting		No
Environmental conditions		
Ambient temperature		
during operation / minimum	°C	-25
during operation / maximum	°C	55
during storage / minimum	°C	-50
during storage / maximum	°C	80
Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		Q
● acc. to DIN EN 81346-2		Q

General Product Approval













CB

Declaration of
Conformity

Test Certificates **Shipping Approval**











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/3NP11331CA12

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

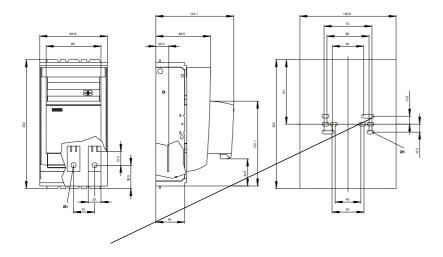
http://support.automation.siemens.com/WW/view/en/3NP11331CA12/all

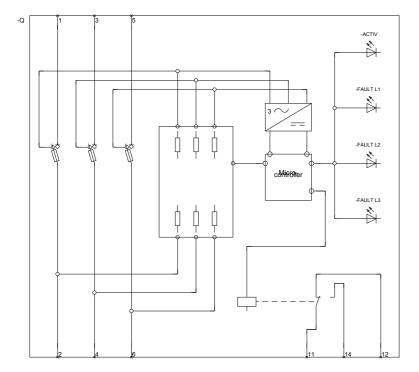
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP11331CA12

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





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