## **SIEMENS**

## Data sheet

## 3NP1143-1DA22



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1, 250A MOUNTING PLATE CONSTRUCTION COVER LEVEL 70 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		1 and 0
Size of fuse link		NH0, NH1
Continuous current / at 35 °C / Rated value	А	250
Let-through current / with closed switch / maximum permissible	kA	32
cut-off value I**2t,max. / 500 V	A²·s	780 000
I2t value / with closed switch / maximum permissible	kA2.s	780
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		1 600
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	23
Electricity		
Continuous current		
Rated value	А	250
• at 40 °C / Rated value	А	245
• at 45 °C / Rated value	А	240
• at 50 °C / Rated value	А	233
● at 55 °C / Rated value	А	233
Let-through current / with high-speed activation / maximum permissible	kA	25
Let-through current / Ic / maximum permissible		
• 400 V	А	32 000
• 500V	А	32 000
cut-off value I**2t,max. / 400 V	A²·s	780 000
Main circuit		
Operating voltage		
<ul> <li>with AC / Rated value / minimum</li> </ul>	V	230
• with AC / Rated value / maximum	V	690
Operating current		
• at AC-21 B / at 400 V / Rated value	А	250
• at AC-21 B / at 500 V / Rated value	А	250
• at AC-21 B / at 690 V / Rated value	А	250
• at AC-22 B / at 400 V / Rated value	А	250
• at AC-22 B / at 500 V / Rated value	А	250
• at AC-22 B / at 690 V / Rated value	А	250
• at AC-23 B / at 400 V / Rated value	А	250
• at AC-23 B / at 500 V / Rated value	А	200

• at AC-23 B / at 690 V / Rated value	А	100
	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		
<ul> <li>Auxiliary switch</li> </ul>		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 /      Dated value	kA	80
Rated value		

<ul> <li>with AC / at 690 V / with high-speed activation / Rated value</li> <li>with closed switch / with AC / at 500 V / Rated value</li> </ul>	kA kA	50 120
• with closed switch / with AC / at 690 V / Rated value	kA	100
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	70
<ul> <li>single or multi-stranded / maximum</li> </ul>	mm²	185
• stranded / minimum	mm²	70
• stranded / maximum	mm²	185
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		10 x 20 mm
Type of electrical connection / for main current circuit		box terminals

Mechanical Design		
Height	mm	306
Width	mm	183.7
Depth	mm	146.3
mounting position		horizontally or vertically
Mounting type		floor mounting
Mounting type		
<ul> <li>floor mounting</li> </ul>		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 / maximum</li> </ul>	°C	80
Certificates		
Equipment marking		

<ul> <li>acc. to DIN EI</li> <li>acc. to DIN EI</li> </ul>			Q Q		
General Produc	t Approval				Declaration of Conformity
	GOST		UR	EHC	EG-Konf.
Test Certificates	Shipping App	roval			

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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/3NP11431DA22

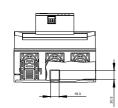
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3NP11431DA22/all

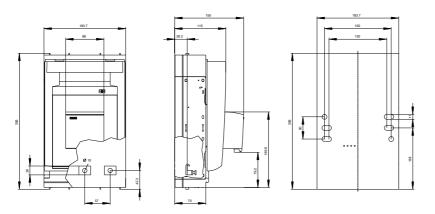
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11431DA22

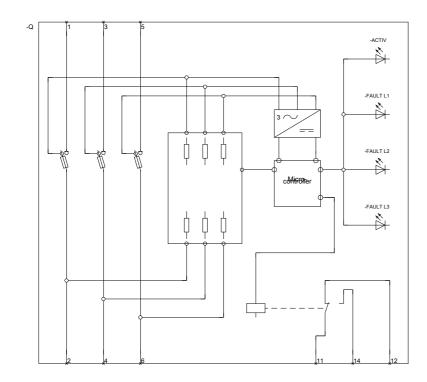
CAx-Online-Generator http://www.siemens.com/cax

## **Tender specifications**

http://ausschreibungstexte.siemens.com/tiplv







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