## **SIEMENS**

Data sheet 3NP1163-1DA12



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH3, 630A MOUNTING PLATE CONSTRUCTION COVER LEVEL 70 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		3 and 2		
Size of fuse link		NH2, NH3		
Continuous current / at 35 °C / Rated value	Α	630		
Let-through current / with closed switch / maximum permissible	kA	60		
cut-off value I**2t,max. / 500 V	A <sup>2</sup> ·s	5 400 000		
I2t value / with closed switch / maximum permissible	kA2.s	5 400		
Power factor				
● at AC-22 B		0.65		
● at AC-23 B		0.35		
with capacitive load		-0.25		
circuit-breaker / Design		3NP11		
Mechanical service life (switching cycles) / typical		1 000		
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	48
Electricity		
Continuous current		
Rated value	Α	630
• at 40 °C / Rated value	Α	610
• at 45 °C / Rated value	Α	575
• at 50 °C / Rated value	Α	555
• at 55 °C / Rated value	Α	530
Let-through current / with high-speed activation / maximum permissible	kA	50
Let-through current / Ic / maximum permissible		
• 400 V	Α	60 000
• 500V	Α	60 000
cut-off value I**2t,max. / 400 V	A²·s	5 400 000
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	Α	630
• at AC-21 B / at 500 V / Rated value	Α	630
• at AC-21 B / at 690 V / Rated value	Α	630
• at AC-22 B / at 400 V / Rated value	Α	630
• at AC-22 B / at 500 V / Rated value	Α	630
• at AC-22 B / at 690 V / Rated value	Α	500
• at AC-23 B / at 400 V / Rated value	Α	630
• at AC-23 B / at 500 V / Rated value	Α	500

	Λ	200
• at AC-23 B / at 690 V / Rated value	A	200
<ul><li>with capacitive load / at 400 V / maximum</li></ul>	A	72
<ul><li>with capacitive load / at 500 V / maximum</li></ul>	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
<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		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	50
• with AC / at 500 V / with high-speed activation / Rated value	kA	50

<ul> <li>with AC / at 690 V / with high-speed activation / Rated value</li> </ul>	kA	50
<ul> <li>with closed switch / with AC / at 500 V / Rated value</li> </ul>	kA	100
• 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	120
<ul> <li>single or multi-stranded / maximum</li> </ul>	mm²	300
• stranded / minimum	mm²	120
• stranded / maximum	mm²	300
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	306
Width	mm	249.4
Depth	mm	169.7
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		
<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
during storage / maximum	°C	80
Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		Q
<ul> <li>acc. to DIN EN 81346-2</li> </ul>		Q

## **General Product Approval**

Declaration of Conformity













Test

**Shipping Approval** 

Certificates

Type Test
Certificates/Test
Report





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## 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/3NP11631DA12

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

http://support.automation.siemens.com/WW/view/en/3NP11631DA12/all

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

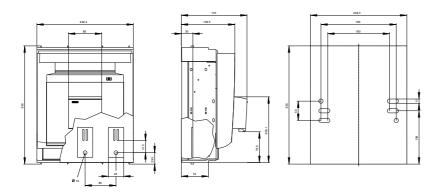
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP11631DA12

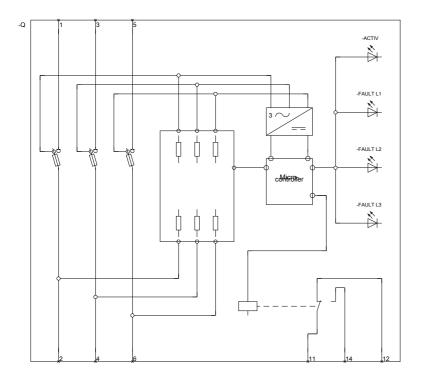
**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv





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