



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 disconnecter
<b>Design of the product</b>		3-pole
<b>Design of the safety monitoring</b>		electronic EFM 10
<b>Design of the operating mechanism</b>		handle unit
<b>Design of the load switch / Strip form</b>		No
<b>Type of the driving mechanism / motor drive</b>		No
General technical data		
<b>Number of poles</b>		3
<b>Type of device</b>		Construction and installation
<b>Size of disconnecting link</b>		3 and 2
<b>Size of fuse link</b>		NH2, NH3
<b>Continuous current / at 35 °C / Rated value</b>	A	630
<b>Let-through current / with closed switch / maximum permissible</b>	kA	60
<b>cut-off value I<sup>2</sup>t<sub>max.</sub> / 500 V</b>	A <sup>2</sup> ·s	5 400 000
<b>I<sup>2</sup>t value / with closed switch / maximum permissible</b>	kA <sup>2</sup> ·s	5 400
<b>Power factor</b>		
• at AC-22 B		0.65
• at AC-23 B		0.35
• with capacitive load		-0.25
<b>circuit-breaker / Design</b>		3NP11
<b>Mechanical service life (switching cycles) / typical</b>		1 000
<b>Fuse system</b>		LV HRC fuse

Voltage		
Insulation voltage / Rated value	V	690
<b>Power factor / at AC-21 B</b>		0.95
Surge voltage resistance / Rated value	kV	8

Protection class		
<b>Protection class IP</b>		
<ul style="list-style-type: none"> <li>• with closed switch / with cover or cable lug cover</li> </ul>		IP40
<ul style="list-style-type: none"> <li>• with closed switch / without cover or cable lug cover</li> </ul>		IP30
<ul style="list-style-type: none"> <li>• on the front</li> </ul>		IP40
<ul style="list-style-type: none"> <li>• open</li> </ul>		IP20

Dissipation		
<b>Active power loss</b>		
<ul style="list-style-type: none"> <li>• maximum</li> </ul>	W	48

Electricity		
<b>Continuous current</b>		
<ul style="list-style-type: none"> <li>• Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at 40 °C / Rated value</li> </ul>	A	610
<ul style="list-style-type: none"> <li>• at 45 °C / Rated value</li> </ul>	A	575
<ul style="list-style-type: none"> <li>• at 50 °C / Rated value</li> </ul>	A	555
<ul style="list-style-type: none"> <li>• at 55 °C / Rated value</li> </ul>	A	530
<b>Let-through current / with high-speed activation / maximum permissible</b>	kA	50
<b>Let-through current / I<sub>c</sub> / maximum permissible</b>		
<ul style="list-style-type: none"> <li>• 400 V</li> </ul>	A	60 000
<ul style="list-style-type: none"> <li>• 500V</li> </ul>	A	60 000
<b>cut-off value I<sup>2</sup>t<sub>max</sub> / 400 V</b>	A <sup>2</sup> ·s	5 400 000

Main circuit		
<b>Operating voltage</b>		
<ul style="list-style-type: none"> <li>• with AC / Rated value / minimum</li> </ul>	V	230
<ul style="list-style-type: none"> <li>• with AC / Rated value / maximum</li> </ul>	V	690
<b>Operating current</b>		
<ul style="list-style-type: none"> <li>• at AC-21 B / at 400 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-21 B / at 500 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-21 B / at 690 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-22 B / at 400 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-22 B / at 500 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-22 B / at 690 V / Rated value</li> </ul>	A	500
<ul style="list-style-type: none"> <li>• at AC-23 B / at 400 V / Rated value</li> </ul>	A	630
<ul style="list-style-type: none"> <li>• at AC-23 B / at 500 V / Rated value</li> </ul>	A	500

- at AC-23 B / at 690 V / Rated value
- with capacitive load / at 400 V / maximum
- with capacitive load / at 500 V / maximum

A	200
A	72
A	55

#### Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
<b>Number of NC contacts / for auxiliary contacts</b>	0
<b>Number of NO contacts / for auxiliary contacts</b>	0

#### Suitability

<b>Suitability for use</b>	
• Main switch	No
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

#### Product details

Product feature / interlock	Yes
<b>Product component</b>	
• Trip indicator	Yes
• Phase failure monitoring	No
• undervoltage release	No
• undervoltage release with leading contact	No
Product property / sealable	Yes
<b>Product expansion</b>	
• Auxiliary switch	Yes
• optional	
— locking capability	Yes
— motor drive	No
— Phase failure monitoring	Yes
— Voltage trigger	No
— Overvoltage protection monitoring	Yes

#### Product function

<b>Product function</b>	
• fuse monitoring	Yes
• Overvoltage protection monitoring	No

#### Short circuit

<b>Conditional short-circuit current (I<sub>q</sub>)</b>	
• Rated value	kA 50
• with AC / at 500 V / with high-speed activation / Rated value	kA 50

• with AC / at 690 V / with high-speed activation / Rated value	kA	50
• with closed switch / with AC / at 500 V / Rated value	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		
• single or multi-stranded / minimum	mm <sup>2</sup>	120
• single or multi-stranded / maximum	mm <sup>2</sup>	300
• stranded / minimum	mm <sup>2</sup>	120
• stranded / maximum	mm <sup>2</sup>	300
<b>Tightening torque / with screw-type terminals</b>		
• minimum	N·m	10
• maximum	N·m	12
Type of electrical connection / for main current circuit		flat connector

## Mechanical Design

<b>Height</b>	mm	306
<b>Width</b>	mm	249.4
<b>Depth</b>	mm	169.7
<b>mounting position</b>		horizontally or vertically
<b>Mounting type</b>		floor mounting
<b>Mounting type</b>		
• floor mounting		Yes
• front mounting		No
• front mounting with 4-hole attachment		No
• front mounting with central attachment		No
• rail mounting		No

## Environmental conditions

<b>Ambient temperature</b>		
• during operation / minimum	°C	-25
• during operation / maximum	°C	55
• during storage / minimum	°C	-50
• during storage / maximum	°C	80

## Certificates

<b>Equipment marking</b>		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval	Declaration of Conformity
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CCC



GOST



UL



UR



EG-Konf.

Test Certificates	Shipping Approval
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[Type Test Certificates/Test Report](#)



DNV



GL



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/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?mfb=3NP11631DA12](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP11631DA12)

**CAX-Online-Generator**

<http://www.siemens.com/cax>

**Tender specifications**

<http://ausschreibungstexte.siemens.com/tiplv>



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