



fuse switch disconnecter 3-pole switchable, for protection of transformers on the secondary side up to 800 kVA for LV HRC fuses GTR 2x577 A max., 400 V AC, and NH3 disconnecting blade up to 1600 A

Model	
product brand name	SENTRON
product designation	Fuse switch disconnectors
design of the product	in in-line design
type of switching contact double breaking switching contact	No
design of the auxiliary release	Without
design of the safety monitoring	Without
design of the load switch strip form	Yes
General technical data	
number of poles	3
number of poles note	3-pole switchable
type of device	For busbar system 185 mm
size of fuse link	NH3
fuse system	LV HRC fuse
Voltage	
insulation voltage rated value	1 000 V
operational current	
• at AC-21 B at 400 V rated value	1 154 A
• at AC-21 B at 500 V rated value	1 154 A
• at AC-21 B at 690 V rated value	1 154 A
• at AC-23 B at 400 V rated value	1 154 A
operating voltage	
• at AC rated value	400 V
Protection class	
protection class IP on the front	IP30
Dissipation	
power loss [W]	
• for rated value of the current at AC in hot operating state per pole	116.7 W
• maximum	350 W
Main circuit	
operational current	
• rated value	1 154 A
• with capacitive load at 400 V rated value	650 A
• with capacitive load at 500 V rated value	480 A
Suitability	
suitability for operation	Transformer protection
suitability for use main switch	No

suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	No
suitability for use maintenance/repair switch	No

#### Product details

<b>product component</b>	
• voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No

#### Short circuit

<b>conditional short-circuit current (I<sub>q</sub>)</b>	
• at AC-21 B at 400 V rated value	50 kA
• at AC-21 B at 500 V rated value	50 kA
• at AC-21 B at 690 V rated value	50 kA
• at AC-22 B at 400 V rated value	50 kA
• at AC-22 B at 500 V rated value	50 kA
• at AC-22 B at 690 V rated value	50 kA
• at AC-23 B at 400 V rated value	50 kA
• at AC-23 B at 500 V rated value	50 kA
• at AC-23 B at 690 V rated value	50 kA

#### Connections

arrangement of electrical connectors for main current circuit	Flat terminal
type of electrical connection for main current circuit	busbar connection

#### Mechanical Design

<b>height</b>	662 mm
<b>width</b>	100 mm
<b>depth</b>	195 mm
<b>fastening method</b>	Flachanschluss, 3 x M 12
<b>mounting position</b>	vertical, horizontal
<b>busbar center-to-center spacing</b>	185 mm
<b>busbar center-to-center spacing</b>	
• 40 mm	No
• 50 mm	No
• 60 mm	No
• 100 mm	No
• 185 mm	Yes
<b>Net Weight</b>	16.58 kg

#### Environmental conditions

<b>ambient temperature during operation</b>	
• minimum	-25 °C
• maximum	55 °C

#### Approvals Certificates

<b>Environment</b>	<b>General Product Approval</b>
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firmations](#)

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firmations](#)



#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NJ4163-3BF01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NJ4163-3BF01>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NJ4163-3BF01](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NJ4163-3BF01)

**CAx-Online-Generator**

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

**Tender specifications**

<https://www.siemens.com/specifications>

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)

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