



Fuse switch disconnecter 3-pole selectable, 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	133 W
• maximum	400 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 disconnecter	Yes

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

Product details

product component	
• voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No

Short circuit

conditional short-circuit current (I _q)	
• 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

height	662 mm
width	100 mm
depth	195 mm
fastening method	Flachanschluss, 3 x M 12
mounting position	vertical
busbar center-to-center spacing	185 mm
busbar center-to-center spacing	
• 40 mm	No
• 50 mm	No
• 60 mm	No
• 100 mm	No
• 185 mm	Yes
net weight	15.5 kg

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C

Approvals Certificates

General Product Approval	other
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Environment

[Environmental Con-
firmations](#)

[Environmental Con-
firmations](#)

Further information

Information on the packaging

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

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

<http://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, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NJ4163-3BF01

CAX-Online-Generator

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

Tender specifications

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

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