



SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH1, 250 A, for Rittal busbar system 60 mm, Box terminal, Fuse monitoring: electronic EFM10, Cover level 32/70 mm

Model	
product designation	3NP1 fuse switch disconnecter
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	electronic EFM 10
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	For Rittal 60 mm busbar system
size of disconnecting link	1 and 0
size of fuse link	NH0, NH1
let-through current with closed switch maximum	32 kA
mechanical service life (operating cycles) typical	1 600
I ² t value with closed switch maximum	780 kA ² .s
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.45
• with capacitive load	-0.25
fuse system	LV HRC fuse
degree of pollution	2
Voltage	
insulation voltage	
• rated value	690 V
• with degree of pollution 3 at AC rated value	690 V
• with degree of pollution 2 at AC rated value	1 000 V
power factor at AC-21 B	0.95
surge voltage resistance rated value	8 kV
operating voltage	
• at AC rated value minimum	230 V
• at AC rated value maximum	690 V
Protection class	
protection class IP	
• with closed switch with cover or cable lug cover	IP40
• with closed switch without cover or cable lug cover	IP30
• open	IP20
Dissipation	
power loss [W]	
• with conventional rated thermal current without fuse per pole	8 W
• with conventional rated thermal current without fuse per device	24 W

• for rated value of the current at AC in hot operating state per pole	31 W
• of the fuse per fuse maximum	23 W
operational current	
• at 35 °C rated value	250 A
• at 40 °C rated value	245 A
• at 45 °C rated value	240 A
• at 50 °C rated value	233 A
• at 55 °C rated value	233 A
• at AC-21 B at 240 V rated value	250 A
• at AC-21 B at 400 V rated value	250 A
• at AC-21 B at 500 V rated value	250 A
• at AC-21 B at 690 V rated value	250 A
• at AC-22 B at 240 V rated value	250 A
• at AC-22 B at 400 V rated value	250 A
• at AC-22 B at 500 V rated value	250 A
• at AC-22 B at 690 V rated value	250 A
• at AC-23 B at 690 V rated value	100 A
• at AC-23 B at 500 V rated value	200 A
• at AC-23 B at 400 V rated value	250 A
• at AC-23 B at 240 V rated value	250 A
let-through current with high-speed activation maximum permissible	25 kA
Main circuit	
operational current	
• rated value	250 A
• with capacitive load at 400 V rated value	72 A
• with capacitive load at 500 V rated value	55 A
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
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes
Product details	
product component	
• undervoltage release	No
• undervoltage release with leading contact	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
• locking capability	Yes
• phase failure monitoring	Yes
• voltage trigger	No
• overvoltage protection monitoring	Yes
Product function	
product function overvoltage protection monitoring	No
Connections	
arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
• solid or stranded minimum	70 mm ²
• solid or stranded maximum	185 mm ²
• stranded minimum	70 mm ²
• stranded maximum	185 mm ²
tightening torque with screw-type terminals	
• minimum	10 N·m

• maximum	10 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	20 x 10 mm
type of connection technology	Box terminal
Mechanical Design	
height	306 mm
width	183.7 mm
width of the busbar	
• minimum	12 mm
• maximum	30 mm
depth	172.5 mm
fastening method	busbar
fastening method	
• floor mounting	No
• rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
net weight	2.99 kg
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C
Certificates	
reference code according to IEC 81346-2	Q
General Product Approval	
Declaration of Con- formity	



[Confirmation](#)



[Miscellaneous](#)



Declaration of Con- formity	Test Certificates	Marine / Shipping	other
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[Type Test Certificates/Test Report](#)



[Confirmation](#)

[Miscellaneous](#)

Environment

[Environmental Con-
firmations](#)

Further information

Siemens has decided to exit the Russian market (see here).

<https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business>

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3NP1143-1JC22>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1JC22>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1JC22

CAX-Online-Generator

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

Tender specifications

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





