



SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH3, 630 A, for Rittal busbar system 60 mm, Box terminal, Fuse monitoring: electromechanical, Cover level 32/70 mm

Model

product brand name	SETRON
product designation	3NP1 fuse switch disconnecter
design of the product	cover level 32/70 mm
busbar design	busbar thickness 5 or 10 mm
design of the safety monitoring	electro mechanical
design of the actuating element	Cover handle
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	3 and 2
size of fuse link	NH2, NH3
let-through current with closed switch maximum permissible	60 kA
mechanical service life (switching cycles) typical	1 000
power factor	
• at AC-22 B	0.65
• at AC-23 B	0.35
• with capacitive load	-0.25
fuse system	LV HRC fuse
degree of pollution	3

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	24 V
• at AC rated value maximum	690 V
• at DC rated value	240 V
• at DC rated value minimum	24 V
• at DC rated value maximum	250 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

- on the front

IP40

Dissipation

power loss [W]

- with conventional rated thermal current without fuse per pole 30 W
- with conventional rated thermal current without fuse per device 90 W
- for rated value of the current at AC in hot operating state per pole 78 W
- of the fuse per fuse maximum 48 W

Current

operational current

- at 35 °C rated value 630 A
- at 40 °C rated value 610 A
- at 45 °C rated value 575 A
- at 50 °C rated value 555 A
- at 55 °C rated value 530 A
- at AC rated value 630 A
- at AC-23 B at 690 V rated value 200 A
- at AC-23 B at 500 V rated value 500 A
- at AC-23 B at 400 V rated value 630 A
- at AC-23 B at 240 V rated value 630 A
- at AC-22 B at 690 V rated value 500 A
- at AC-22 B at 500 V rated value 630 A
- at AC-22 B at 400 V rated value 630 A
- at AC-22 B at 240 V rated value 630 A
- at AC-21 B at 240 V rated value 630 A
- at AC-21 B at 400 V rated value 630 A
- at AC-21 B at 500 V rated value 630 A
- at AC-21 B at 690 V rated value 630 A
- at DC-23 B at 440 V rated value 250 A
- at DC-23 B at 240 V rated value 400 A
- at DC-23 B at 120 V rated value 400 A
- at DC-22 B at 440 V rated value 500 A
- at DC-22 B at 240 V rated value 630 A
- at DC-22 B at 120 V rated value 630 A
- at DC-21 B at 440 V rated value 630 A
- at DC-21 B at 240 V rated value 630 A
- at DC-21 B at 120 V rated value 630 A

let-through current with high-speed activation maximum permissible 50 kA

Main circuit

operational current

- rated value 630 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

- trip indicator Yes
- undervoltage release No
- undervoltage release with leading contact No

product feature sealable Yes

product extension auxiliary switch	Yes
product extension 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

Connections

arrangement of electrical connectors for main current circuit	other
connectable conductor cross-section for main contacts	
• solid or stranded minimum	50 mm ²
• solid or stranded maximum	300 mm ²
• finely stranded with core end processing minimum	120 mm ²
• finely stranded with core end processing maximum	240 mm ²
• stranded minimum	50 mm ²
• stranded maximum	300 mm ²
tightening torque with screw-type terminals	
• minimum	25 N·m
• maximum	25 N·m
type of connectable conductor cross-sections of the laminated conductors maximum	32 x 20 mm
type of connection technology	Box terminal
type of electrical connection for main current circuit	box terminal

Mechanical Design

height	306 mm
width	249.4 mm
depth	242.3 mm
fastening method	busbar
fastening method	
• floor mounting	No
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	horizontal/vertical
busbar center-to-center spacing	60 mm
net weight	7.28 kg

Environmental conditions

ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-50 °C
• maximum	80 °C

General Product Approval

Declaration of Conformity

[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity	Test Certificates	Marine / Shipping	other
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