



SENTRON, Fuse switch disconnecter 3NP5, 3-pole, NH3, 630 A, for assembly and installation on mounting plate, with High-speed closing, screw terminal, Fuse monitoring: electronic, Auxiliary switch at Switch disconnecter: 1 NO+1 NC, Auxiliary switch at the Fuse monitoring: 2 NO+1 NC

Model	
Product brand name	SENTRON
Product designation	3NP5 fuse switch disconnecter
Design of the product	auxiliary switch at the switch disconnecter: 1 NO + 1 NC, auxiliary switch at the fuse monitoring device: 2NO+1NC
Design type	For assembly and installation with AUX 1 NO + 1 NC/2NO+1NC, with high-speed closing and fuse monitoring ESUE
Design of the safety monitoring	Electronic
Design of the operating mechanism	Cover handle
Design of the load switch / Strip form	No
General technical data	
Number of poles	3
Size of disconnecting link	NH2, NH3
Size of fuse link	NH2, NH3
Continuous current / at 35 °C / rated value	630 A
power factor cos phi / in utilization category	
• AC-21 B / at 400 V	0.95
• AC-21 B / at 500 V	0.95
• AC-22 B / at 400 V	0.65

• AC-22 B / at 500 V	0.65
circuit-breaker / Design	3NP546
Mounting type	Fixed mounting
Fuse system	LV HRC fuse

Voltage

Type of voltage	AC/DC
Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV

Protection class

Protection class IP / on the front	IP00
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Dissipation

Power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	13 W
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Electricity

Current / rated value	630 A
Continuous current	
• rated value	630 A
• at 40 °C / rated value	630 A
• at 45 °C / rated value	617 A
• at 50 °C / rated value	605 A
• at 55 °C / rated value	592 A
• at 60 °C / rated value	567 A
• at 65 °C / rated value	536 A
• at 70 °C / rated value	504 A
Let-through current / I _{2t} / maximum permissible / in utilization category	
• AC-21 B / at 400 V	5 500 000 A ² ·s
• AC-21 B / at 500 V	5 500 000 A ² ·s
• AC-22 B / at 400 V	5 500 000 A ² ·s
• AC-22 B / at 500 V	5 500 000 A ² ·s
Let-through current / I _c / maximum permissible / in utilization category	
• AC-21 B / at 400 V	50 kA
• AC-21 B / at 500 V	50 kA
• AC-22 B / at 400 V	50 kA
• AC-22 B / at 500 V	50 kA

Main circuit

Operating voltage	
• at AC / at 50/60 Hz / rated value	500 V
• at AC / rated value / maximum	690 V
• at DC / rated value	440 V

Rated current I _e / maximum / in utilization category	
<ul style="list-style-type: none"> • AC-21 B / at 400 V 	630 A
<ul style="list-style-type: none"> • AC-21 B / at 500 V 	630 A
<ul style="list-style-type: none"> • AC-22 B / at 400 V 	630 A
<ul style="list-style-type: none"> • AC-22 B / at 500 V 	630 A

Suitability	
Suitability for use	system protection
<ul style="list-style-type: none"> • Main switch 	No
<ul style="list-style-type: none"> • switch disconnecter 	Yes
<ul style="list-style-type: none"> • EMERGENCY OFF switch 	No
<ul style="list-style-type: none"> • safety switch 	Yes

Product function	
Product function / fuse monitoring	Yes

Short circuit	
Maximum short-circuit current breaking capacity (I _{cu}) / at 400 V / rated value	5.04 kA
Conditional rated short-circuit current / in utilization category	
<ul style="list-style-type: none"> • AC-21 B / at 400 V 	50 kA
<ul style="list-style-type: none"> • AC-21 B / at 500 V 	50 kA
<ul style="list-style-type: none"> • AC-22 B / at 400 V 	50 kA
<ul style="list-style-type: none"> • AC-22 B / at 500 V 	50 kA

Connections	
Type of electrical connection	1x6 - 240 mm ² to 2x6 - 240 mm ²
<ul style="list-style-type: none"> • for main current circuit 	screw-type terminals

Mechanical Design	
Height	300 mm
Width	276 mm
Depth	207 mm
Number of width units	1
Mounting type	Mounting plate
Mounting type	
<ul style="list-style-type: none"> • floor mounting 	Yes
<ul style="list-style-type: none"> • front mounting 	No
<ul style="list-style-type: none"> • rail mounting 	No
Net weight	8 313 g

Environmental conditions	
Degree of pollution	3
Installation altitude / at height above sea level / maximum	2 000 m

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

Certificates

Reference code	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity	Test Certificates	other
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[Miscellaneous](#)



EG-Konf.

[Special Test Certificate](#)

[Miscellaneous](#)

[Confirmation](#)

Further information

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=3NP5460-0HA13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP5460-0HA13>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP5460-0HA13

CAX-Online-Generator

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

Tender specifications

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

