

SETRON, Fuse switch disconnecter 3NP5, 3-pole, NH00, 160 A, with Adapter for Busbar system 8US 40 mm, with high-speed closing, Clamp terminal, Fuse monitoring: through 3VU, Auxiliary switch at Switch disconnecter: 1 NO+1 NC, Auxiliary switch at the Fuse monitoring: 1 NO+1 NC



Figure similar

Model	
Product brand name	SETRON
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: 1 NO + 1 NC
Design type	For adaptation 40 mm busbar systems with AUX 1 NO+1 NC/1 NO+1 NC, with high-speed closing and fuse monitoring SUE
Design of the safety monitoring	by 3VU
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	NH000, NH00
Size of fuse link	NH000, NH00
Continuous current / at 35 °C / rated value	160 A
power factor cos phi / in utilization category	
• AC-21 B / at 400 V	0.95

<ul style="list-style-type: none"> • AC-21 B / at 500 V 	0.95
<ul style="list-style-type: none"> • AC-22 B / at 400 V 	0.65
<ul style="list-style-type: none"> • AC-22 B / at 500 V 	0.65
circuit-breaker / Design	3NP506
Mounting type	Plug-in
Fuse system	LV HRC fuse

Voltage

Insulation voltage / rated value	690 V
Surge voltage resistance / rated value	6 kV
Type of voltage	AC/DC
Operating voltage	
<ul style="list-style-type: none"> • at AC / rated value / maximum 	690 V
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	690 V
<ul style="list-style-type: none"> • at DC / rated value 	440 V

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	2.66 W
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Current

Current / rated value	160 A
Continuous current	
<ul style="list-style-type: none"> • rated value 	160 A
<ul style="list-style-type: none"> • at 40 °C / rated value 	157 A
<ul style="list-style-type: none"> • at 45 °C / rated value 	154 A
<ul style="list-style-type: none"> • at 50 °C / rated value 	147 A
<ul style="list-style-type: none"> • at 55 °C / rated value 	141 A
<ul style="list-style-type: none"> • at 60 °C / rated value 	133 A
<ul style="list-style-type: none"> • at 65 °C / rated value 	125 A
<ul style="list-style-type: none"> • at 70 °C / rated value 	117 A
Let-through current / I _{2t} / maximum permissible / in utilization category	
<ul style="list-style-type: none"> • AC-21 B / at 400 V 	225 000 A ² ·s
<ul style="list-style-type: none"> • AC-21 B / at 500 V 	225 000 A ² ·s
<ul style="list-style-type: none"> • AC-22 B / at 400 V 	225 000 A ² ·s
<ul style="list-style-type: none"> • AC-22 B / at 500 V 	225 000 A ² ·s
Let-through current / I _c / maximum permissible / in utilization category	
<ul style="list-style-type: none"> • AC-21 B / at 400 V 	15 kA
<ul style="list-style-type: none"> • AC-21 B / at 500 V 	15 kA
<ul style="list-style-type: none"> • AC-22 B / at 400 V 	15 kA

- AC-22 B / at 500 V

15 kA

Main circuit

Rated current I_e / maximum / in utilization category

- | | |
|----------------------|-------|
| • AC-21 B / at 400 V | 160 A |
| • AC-21 B / at 500 V | 160 A |
| • AC-22 B / at 400 V | 160 A |
| • AC-22 B / at 500 V | 160 A |

Suitability

Suitability for use system protection

- | | |
|------------------------|-----|
| • Main switch | No |
| • switch disconnector | Yes |
| • EMERGENCY OFF switch | No |
| • 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 1.6 kA

Conditional rated short-circuit current / 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 |

Connections

Type of electrical connection	1 conductor 2.5 - 50 mm ² , 2 conductors 1x2.5 - 50 mm ² a. 1x2.5 - 35 mm ²
• for main current circuit	terminal clamp

Mechanical Design



Height	196 mm
Width	134 mm
Depth	187.5 mm
Number of width units	1
Mounting type	Busbar
Mounting type	
• floor mounting	No
• front mounting	No
• rail mounting	Yes
Busbar center-to-center spacing	40 mm
Net weight	2 876 g

Environmental conditions

Installation altitude / at height above sea level / maximum	2 000 m
• during operation	-25 ... +55 °C
• during storage	-50 ... +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
 CCC	 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=3NP5065-1EG86>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP5065-1EG86>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP5065-1EG86

CAX-Online-Generator

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

Tender specifications

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

