

SENTRON, Fuse switch disconnecter 3NP5, 3-pole, NH00, 160 A, for assembly and installation on mounting plate, with High-speed closing, Clamp terminal, Auxiliary switch at Switch disconnecter: 1 NO+1 NC



Figure similar

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
Design type	For assembly and installation with auxiliary switch 1 NO+1 NC, with high-speed closing
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
• 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	3NP506
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	2.66 W
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### Electricity

Current / rated value	160 A
Continuous current	
• rated value	160 A
• at 40 °C / rated value	157 A
• at 45 °C / rated value	154 A
• at 50 °C / rated value	147 A
• at 55 °C / rated value	141 A
• at 60 °C / rated value	133 A
• at 65 °C / rated value	136 A
• at 70 °C / rated value	117 A
Let-through current / I <sub>2</sub> t / maximum permissible / in utilization category	
• AC-21 B / at 400 V	225 000 A <sup>2</sup> ·s
• AC-21 B / at 500 V	225 000 A <sup>2</sup> ·s
• AC-22 B / at 400 V	225 000 A <sup>2</sup> ·s
• AC-22 B / at 500 V	225 000 A <sup>2</sup> ·s
Let-through current / I <sub>c</sub> / maximum permissible / in utilization category	
• AC-21 B / at 400 V	15 kA
• AC-21 B / at 500 V	15 kA
• AC-22 B / at 400 V	15 kA
• AC-22 B / at 500 V	15 kA

### Main circuit

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

Rated current I <sub>e</sub> / maximum / in utilization category	
<ul style="list-style-type: none"> <li>• AC-21 B / at 400 V</li> </ul>	160 A
<ul style="list-style-type: none"> <li>• AC-21 B / at 500 V</li> </ul>	160 A
<ul style="list-style-type: none"> <li>• AC-22 B / at 400 V</li> </ul>	160 A
<ul style="list-style-type: none"> <li>• AC-22 B / at 500 V</li> </ul>	160 A

### Suitability

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

### Product function

Product function / fuse monitoring	No
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### Short circuit

Maximum short-circuit current breaking capacity (I <sub>cu</sub> ) / at 400 V / rated value	1.6 kA
Conditional rated short-circuit current / in utilization category	
<ul style="list-style-type: none"> <li>• AC-21 B / at 400 V</li> </ul>	50 kA
<ul style="list-style-type: none"> <li>• AC-21 B / at 500 V</li> </ul>	50 kA
<ul style="list-style-type: none"> <li>• AC-22 B / at 400 V</li> </ul>	50 kA
<ul style="list-style-type: none"> <li>• AC-22 B / at 500 V</li> </ul>	50 kA

### Connections

Type of electrical connection	1 conductor 2.5 - 50 mm <sup>2</sup> , 2 conductors 1x2.5 - 50 mm <sup>2</sup> a. 1x2.5 - 35 mm <sup>2</sup>
<ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>	terminal clamp

### Mechanical Design

Height	196 mm
Width	134 mm
Depth	97.5 mm
Number of width units	1
Mounting type	Mounting plate
Mounting type	
<ul style="list-style-type: none"> <li>• floor mounting</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• front mounting</li> </ul>	No
<ul style="list-style-type: none"> <li>• rail mounting</li> </ul>	No
Net weight	1 761 g

### Environmental conditions



Degree of pollution	3
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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		
 CCC	 EG-Konf.	<a href="#">Special Test Certificate</a>	<a href="#">Confirmation</a>	<a href="#">Miscellaneous</a>	<a href="#">Miscellaneous</a>

## 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=3NP5060-0CB10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP5060-0CB10>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP5060-0CB10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP5060-0CB10)

### CAX-Online-Generator

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

### Tender specifications

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

