

SWITCH DISCONNECTOR FUSE 125A, FRAME SIZE 2, 3-POLE FOR LV HRC FUSE SIZE 000 AND 00 FRONT OPERATING CENTER BASIC UNIT WITHOUT HANDLE BACKSIDE FLAT TERMINAL WITHOUT FUSES



Model	
Product brand name	SETRON
Product designation	Switching device
Design of the product	3KF switch disconnecter with fuses
Design of the operating mechanism	without
Design of handle	Without
Direction of actuation	from the front
Type of the driving mechanism / motor drive	No
Number of poles	3
Size of disconnecting link	00 and 000
Size of switch disconnecter	2
Size of fuse link	NH000, NH00
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	8 000
• at AC-23 A / at 690 V / at 50/60 Hz	5 000
• at DC-23 A / at 440 V	1 000
I <sup>2</sup> t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	150 600 A <sup>2</sup> ·s

• with closed switch / for combination switch + fuse / at 400 V / maximum	150 600 A <sup>2</sup> ·s
• with closed switch / at 690 V / for combination switch + gG fuse / maximum	89 640 A <sup>2</sup> ·s
• with closed switch / at 690 V / for combination switch + aM fuse / maximum	89 640 A <sup>2</sup> ·s
• of the fuse / at 500 V / maximum permissible	223 000 A <sup>2</sup> ·s
• of the gG fuse / at 690 V / maximum permissible	360 000 A <sup>2</sup> ·s
• of the aM fuse / at 690 V / maximum permissible	375 000 A <sup>2</sup> ·s
<b>Mechanical service life (switching cycles) / typical</b>	12 000
<b>Position / of the switch operating mechanism</b>	after the first pole
<b>Fuse system</b>	LV HRC fuse
<b>Overvoltage category</b>	IV
<b>Operating voltage / with current paths in series</b>	
• with degree of pollution 2 / at DC / rated value / Note	440 / 3
• with degree of pollution 3 / at DC / rated value / Note	440 / 3
Insulation voltage / rated value	1 000 V
Surge voltage resistance / rated value	12 kV
<b>Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz</b>	10 %

<b>Protection class</b>	
<b>Protection class IP</b>	IP00
<b>Protection class IP</b>	
• with closed switch / with cover or cable lug cover	IP20
• on the front	IP20

<b>Dissipation</b>	
<b>Power loss [W]</b>	
• with conventional rated thermal current / per pole	4.2 W
• with conventional rated thermal current / per device	12.6 W
• with conventional rated thermal current / without fuse / per pole	4.2 W
• with conventional rated thermal current / without fuse / per device	12.6 W
• of the fuse / per fuse / maximum	11 W
• maximum	45.6 W
<b>Operating current</b>	

• at AC-21 A / at 400 V / maximum	125 A
• at AC-21 A / at 500 V / maximum	125 A
• at AC-21 A / at 690 V / maximum	125 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
• at DC-23 A / at 440 V / rated value / maximum	125 A
• at DC-23 A / at 220 V / rated value / maximum	125 A
• at DC-22 A / at 440 V / rated value / maximum	125 A
• at DC-22 A / at 220 V / rated value / maximum	125 A
• at DC-21 A / at 440 V / rated value / maximum	125 A
• at DC-21 A / at 220 V / maximum	125 A
<b>Continuous current</b>	
• rated value	125 A
• at 40 °C / rated value	125 A
• at 45 °C / rated value	125 A
• at 50 °C / rated value	125 A
• at 55 °C / rated value	125 A
• at 60 °C / rated value	125 A
• at 65 °C / rated value	125 A
• at 70 °C / rated value	125 A
Continuous current / at DC / rated value	125 A
<b>Let-through current / of the fuse / at 500 V / maximum permissible</b>	18 000 A
<b>Let-through current / of the gG fuse / at 690 V / maximum permissible</b>	25 500 A
<b>Let-through current / of the aM fuse / at 690 V / maximum permissible</b>	28 100 A
<b>Let-through current / with closed switch</b>	
• at 690 V / for combination switch + aM fuse / maximum permissible	16 870 A
• at 690 V / for combination switch + gG fuse / maximum permissible	16 870 A
• for combination switch + fuse / at 400 V / maximum permissible	18 200 A

<ul style="list-style-type: none"> <li>• for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	18 200 A
Short-time current resistance (I <sub>cw</sub> ) / at 690 V AC/440 V DC / limited to 1 s / rated value	5 kA

### Main circuit

<b>Operating power / at AC-23 A</b>	
<ul style="list-style-type: none"> <li>• at 400 V / at 50/60 Hz / rated value</li> <li>• at 500 V / at 50/60 Hz / rated value</li> <li>• at 690 V / at 50/60 Hz / rated value</li> </ul>	55 kW 75 kW 110 kW
<b>Operating voltage</b>	
<ul style="list-style-type: none"> <li>• at AC / at 50/60 Hz / rated value</li> <li>• at AC / rated value / maximum</li> </ul>	690 V 690 V

### Auxiliary circuit

<b>Number of connected NC contacts / for auxiliary contacts</b>	0
<b>Number of connected NO contacts / for auxiliary contacts</b>	0
<b>Number of connected CO contacts / for auxiliary contacts</b>	0
<b>Suitability for use</b>	
<ul style="list-style-type: none"> <li>• Main switch</li> <li>• switch disconnecter</li> <li>• EMERGENCY OFF switch</li> <li>• safety switch</li> <li>• maintenance/repair switch</li> </ul>	Yes Yes Yes Yes Yes
Product feature / interlock	No
<b>Product component</b>	
<ul style="list-style-type: none"> <li>• Voltage trigger</li> <li>• undervoltage release</li> <li>• undervoltage release with leading contact</li> </ul>	No No No
Product feature / sealable	Yes
<b>Product extension</b>	
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> <li>• optional               <ul style="list-style-type: none"> <li>— locking capability</li> <li>— motor drive</li> <li>— fuse monitoring</li> </ul> </li> </ul>	Yes Yes No Yes
<b>Product function</b>	
<ul style="list-style-type: none"> <li>• fuse monitoring</li> </ul>	No

### Short circuit

Short-circuit current making capacity (I <sub>cm</sub> ) / for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum	7.65 kA
<b>Conditional short-circuit current / with line-side fuse protection</b>	
• at 500 V / by gG fuse / rated value	100 kA
• at 690 V / by gG fuse / rated value	100 kA

## Connections

Arrangement of electrical connectors / for main current circuit	Rear
<b>Tightening torque / with screw-type terminals</b>	
• minimum	15 N·m
• maximum	22 N·m
• Type of connectable conductor cross-sections / for copper busbar	1x (15x3 mm)
• Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (2.5 ... 70 mm <sup>2</sup> ), 2x (2.5 ... 50 mm <sup>2</sup> )
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234	1x (2.5 ... 95 mm <sup>2</sup> ), 2x (2.5 ... 50 mm <sup>2</sup> )
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (25 ... 70 mm <sup>2</sup> ), 2x (25 ... 50 mm <sup>2</sup> )
<b>Type of electrical connection</b>	
• for main current circuit	flat connector

## Mechanical Design

<b>Height</b>	111.3 mm
<b>Width</b>	190.7 mm
<b>Depth</b>	178 mm
<b>Mounting position</b>	any
<b>Mounting type</b>	floor mounting
<b>Mounting type</b>	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	No
<b>Net weight</b>	2 200 g

## Environmental conditions

<b>Degree of pollution</b>	3
<b>Ambient temperature</b>	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-50 °C
• during storage / maximum	80 °C

## Certificates

Equipment marking / acc. to DIN EN 61346-2

Q

General Product Approval

other

[Miscellaneous](#)



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## 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=3KF2312-0MR11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF2312-0MR11>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3KF2312-0MR11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2312-0MR11)

**CAX-Online-Generator**

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

**Tender specifications**

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



