## **SIEMENS**

Data sheet 3KF2312-0NR11

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	SENTRON
Product designation	Switching device
Design of the product	3KF switch disconnector 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 disconnector	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
I2t value	
<ul> <li>with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	150 600 A <sup>2</sup> ·s

150 600 A <sup>2</sup> ·s
89 640 A²·s
89 640 A²·s
223 000 A²-s
360 000 A²·s
375 000 A²·s
12 000
after the second pole
LV HRC fuse
IV
440 / 3
440 / 3
1 000 V
12 kV
10 %
IP00
IP00
IP00 IP20
IP20
IP20
IP20
IP20 IP20
IP20 IP20 4.2 W
IP20 IP20 4.2 W 12.6 W
IP20 IP20 4.2 W 12.6 W 4.2 W
IP20 IP20 4.2 W 12.6 W 12.6 W

• 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
Continuous current	
• 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
Let-through current / of the fuse / at 500 V / maximum permissible	18 000 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	25 500 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	28 100 A
Let-through current / with closed switch	
<ul> <li>at 690 V / for combination switch + aM fuse / maximum permissible</li> </ul>	16 870 A
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	16 870 A
<ul> <li>for combination switch + fuse / at 400 V / maximum permissible</li> </ul>	18 200 A

<ul> <li>for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	18 200 A
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	5 kA
Main circuit	
Operating power / at AC-23 A	
<ul> <li>at 400 V / at 50/60 Hz / rated value</li> </ul>	55 kW
<ul> <li>at 500 V / at 50/60 Hz / rated value</li> </ul>	75 kW
• at 690 V / at 50/60 Hz / rated value	110 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
• at AC / rated value / maximum	690 V
Auxiliary circuit	
Number of connected NC contacts / for auxiliary	0
contacts	
Number of connected NO contacts / for auxiliary	0
contacts	
Number of connected CO contacts / for auxiliary	0
contacts	
Suitability for use	Yes
Main switch	Yes
• switch disconnector	
EMERGENCY OFF switch	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Product feature / interlock	No
Product component	
Voltage trigger	No 
undervoltage release	No
undervoltage release with leading contact	No
Product feature / sealable	Yes
Product extension	
Auxiliary switch	Yes
<ul><li>optional</li></ul>	
<ul><li>— locking capability</li></ul>	Yes
— motor drive	No
— fuse monitoring	Yes
Product function	
• fuse monitoring	No

Short circuit

Short-circuit current making capacity (Icm) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum	7.65 kA
Conditional short-circuit current / with line-side fuse protection	
• 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	Rear
current circuit	
Tightening torque / with screw-type terminals	
• minimum	15 N·m
• maximum	22 N·m
<ul> <li>Type of connectable conductor cross-sections / for copper busbar</li> </ul>	1x (15x3 mm)
<ul> <li>Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug</li> </ul>	1x (2.5 70 mm²), 2x (2.5 50 mm²)
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234</li> </ul>	1x (2.5 95 mm²), 2x (2.5 50 mm²)
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235</li> </ul>	1x (25 70 mm²), 2x (25 50 mm²)
Type of electrical connection	
• for main current circuit	flat connector

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

Environmental conditions	
Degree of pollution	3
Ambient temperature	
<ul><li>during operation / minimum</li></ul>	-25 °C
<ul><li>during operation / maximum</li></ul>	70 °C
<ul><li>during storage / minimum</li></ul>	-50 °C
<ul><li>during storage / maximum</li></ul>	80 °C

## Certificates

Equipment marking / acc. to DIN EN 61346-2

Q

**General Product Approval** 

other



Miscellaneous

## 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=3KF2312-0NR11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF2312-0NR11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF2312-0NR11

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







