## **SIEMENS**

Data sheet 3KF1408-4LB11

switch disconnector fuse 80A, frame size 1, 4-pole for LV HRC Fuse size 000 side operating left basic unit without handle box 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 left
Type of the driving mechanism / motor drive	No
Number of poles	4
Size of disconnecting link	00 and 000
Size of switch disconnector	1
Size of fuse link	NH000, NH00
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	10 000
• at AC-23 A / at 690 V / at 50/60 Hz	6 000
• at DC-23 A / at 440 V	1 500
I2t value	
<ul> <li>with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	33 200 A²-s

<ul> <li>with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	33 200 A²-s
<ul> <li>with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	40 700 A²-s
<ul> <li>with closed switch / at 690 V / for combination switch + aM fuse / maximum</li> </ul>	40 700 A²-s
• of the fuse / at 500 V / maximum permissible	34 000 A²·s
<ul> <li>of the gG fuse / at 690 V / maximum permissible</li> </ul>	55 000 A²-s
<ul> <li>of the aM fuse / at 690 V / maximum permissible</li> </ul>	55 000 A²-s
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the left end
Fuse system	LV HRC fuse
Overvoltage category	IV
Operating voltage / with current paths in series	
<ul> <li>with degree of pollution 2 / at DC / rated value / Note</li> </ul>	440 / 3
<ul> <li>with degree of pollution 3 / at DC / rated value / Note</li> </ul>	440 / 3
Insulation voltage / rated value	1 000 V
Surge voltage resistance / rated value	12 kV
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Protection class	
Protection class IP	IP20
Protection class IP	
<ul> <li>with closed switch / with cover or cable lug cover</li> </ul>	IP20
• on the front	IP20
• on the front  Dissipation	IP20
	IP20
Dissipation	IP20 2.8 W
Power loss [W]  • with conventional rated thermal current / per	
Power loss [W]  • with conventional rated thermal current / per pole  • with conventional rated thermal current / per	2.8 W
Power loss [W]  • with conventional rated thermal current / per pole  • with conventional rated thermal current / per device  • with conventional rated thermal current /	2.8 W 8.4 W
Power loss [W]  • with conventional rated thermal current / per pole  • with conventional rated thermal current / per device  • with conventional rated thermal current / without fuse / per pole  • with conventional rated thermal current /	2.8 W 8.4 W 2.8 W
Power loss [W]  • with conventional rated thermal current / per pole  • with conventional rated thermal current / per device  • with conventional rated thermal current / without fuse / per pole  • with conventional rated thermal current / without fuse / per device	2.8 W 8.4 W 2.8 W 8.4 W

<ul> <li>at AC-21 A / at 400 V / maximum</li> </ul>	80 A
• at AC-21 A / at 500 V / maximum	80 A
• at AC-21 A / at 690 V / maximum	80 A
• at AC-23 A / at 500 V / maximum	80 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	80 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	80 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	80 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	80 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	80 A
• at DC-23 A / at 440 V / rated value / maximum	80 A
• at DC-23 A / at 220 V / rated value / maximum	80 A
• at DC-22 A / at 440 V / rated value / maximum	80 A
• at DC-22 A / at 220 V / rated value / maximum	80 A
• at DC-21 A / at 440 V / rated value / maximum	80 A
• at DC-21 A / at 220 V / maximum	80 A
Continuous current	
rated value	80 A
• at 40 °C / rated value	80 A
• at 45 °C / rated value	80 A
• at 50 °C / rated value	80 A
• at 55 °C / rated value	80 A
• at 60 °C / rated value	80 A
• at 65 °C / rated value	80 A
• at 70 °C / rated value	80 A
Continuous current / at DC / rated value	80 A
Let-through current / of the fuse / at 500 V / maximum permissible	11 800 A
Let-through current / of the gG fuse / at 690 V /	11 500 A
maximum permissible	
Let-through current / of the aM fuse / at 690 V / maximum permissible	11 500 A
Let-through current / with closed switch	
	11 200 A
<ul> <li>at 690 V / for combination switch + aM fuse / maximum permissible</li> </ul>	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	11 200 A
<ul> <li>for combination switch + fuse / at 400 V / maximum permissible</li> </ul>	10 400 A

<ul> <li>for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	10 400 A
Short-time current resistance (Icw) / at 690 V AC/440	2.5 kA
V DC / limited to 1 s / rated value	
Main circuit	
Operating power / at AC-23 A	
● at 400 V / at 50/60 Hz / rated value	37 kW
● at 500 V / at 50/60 Hz / rated value	55 kW
• at 690 V / at 50/60 Hz / rated value	75 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	690 V
<ul><li>at AC / rated value / maximum</li></ul>	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	V
Main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Product feature / interlock	No
Product component	
<ul> <li>Voltage trigger</li> </ul>	No
undervoltage release	No
<ul> <li>undervoltage release with leading contact</li> </ul>	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	3.55 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 current circuit	Top and bottom
Tightening torque / with screw-type terminals	
• minimum	5 N·m
• maximum	6.5 N·m
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing</li> </ul>	1x (6 25 mm²)
<ul> <li>Type of connectable conductor cross-sections / with flexible busbar</li> </ul>	2x (0,8x9 mm)
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded</li> </ul>	1x (6 25 mm²)
Type of electrical connection	
• for main current circuit	Box terminal

Mechanical Design	
Height	122 mm
Width	203.8 mm
Depth	130.5 mm
Mounting position	any
Mounting type	Floor mounting and snap-on mounting on 35 mm standard mounting rail
Mounting type	
• front mounting with 4-hole attachment	No
<ul> <li>front mounting with central attachment</li> </ul>	No
rail mounting	Yes
Net weight	1 750 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

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## **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=3KF1408-4LB11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF1408-4LB11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF1408-4LB11">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF1408-4LB11</a>

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







