SIEMENS

Data sheet 3KF1408-4RB11

SWITCH DISCONNECTOR FUSE 80A, FRAME SIZE 1, 4-POLE FOR LV HRC FUSE SIZE 000 SIDE OPERATING RIGHT 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 right
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	
 with closed switch / for combination switch + fuse / at 500 V / maximum 	33 200 A²·s

 with closed switch / for combination switch + fuse / at 400 V / maximum 	33 200 A²·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	40 700 A²·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	40 700 A²·s
• of the fuse / at 500 V / maximum permissible	34 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	55 000 A ² ·s
 of the aM fuse / at 690 V / maximum permissible 	55 000 A²·s
Mechanical service life (switching cycles) / typical	15 000
Position / of the switch operating mechanism	at the right end
Fuse system	LV HRC fuse
Overvoltage category	IV
Operating voltage / with current paths in series	
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
Overvoltage in percent / relative to the operating voltage / at AC / at 50/60 Hz	10 %
Protection class	
Protection class IP	IP20
Protection class IP	
 with closed switch / with cover or cable lug cover 	IP20
• on the front	IP20
	IP20
• on the front Dissipation Power loss [W]	IP20
Dissipation	1P20 2.8 W
Dissipation 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

• at AC-21 A / at 400 V / maximum	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 / at 50/60 Hz / rated value / maximum	80 A
• 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 / maximum permissible	11 500 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	11 500 A
Let-through current / with closed switch	
 at 690 V / for combination switch + aM fuse / maximum permissible 	11 200 A
• at 690 V / for combination switch + gG fuse / maximum permissible	11 200 A
• for combination switch + fuse / at 400 V / maximum permissible	10 400 A

 for combination switch + fuse / at 500 V / maximum permissible 	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
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	V
Main switch	Yes
switch disconnector	Yes
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
optional	
— locking capability	Yes
— motor drive	No
— fuse monitoring	Yes
Product function	
• fuse monitoring	No

Short circuit

Short-circuit current making capacity (lcm) / 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	Top and bottom
current circuit	
Tightening torque / with screw-type terminals	
• minimum	5 N·m
• maximum	6.5 N·m
 Type of connectable conductor cross-sections / for copper conductor / solid 	1x (1 16 mm²)
 Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing 	1x (6 25 mm²)
 Type of connectable conductor cross-sections / with flexible busbar 	2x (0,8x9 mm)
• Type of connectable conductor cross-sections / for copper conductor / stranded	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
 front mounting with central attachment 	No
• rail mounting	Yes
Net weight	1 750 g

Environmental conditions	
Degree of pollution	3
Ambient temperature	
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

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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=3KF1408-4RB11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF1408-4RB11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1408-4RB11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







