SIEMENS

Data sheet 3KF5480-0MF11

SWITCH DISCONNECTOR FUSE 800A, FRAME SIZE 5, 4-POLE FOR LV HRC FUSE SIZE 2 AND 3 FRONT OPERATING CENTER BASIC UNIT WITHOUT HANDLE 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	4
Size of disconnecting link	3 and 2
Size of switch disconnector	5
Size of fuse link	NH2, NH3
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	1 500
• at AC-23 A / at 690 V / at 50/60 Hz	1 000
• at DC-23 A / at 440 V	500
I2t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	4 100 000 A ² ·s

 with closed switch / for combination switch + fuse / at 400 V / maximum 	4 100 000 A ² ·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	2 050 000 A ² ·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	2 050 000 A ² ·s
• of the fuse / at 500 V / maximum permissible	10 400 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	7 000 000 A ² ·s
 of the aM fuse / at 690 V / maximum permissible 	7 000 000 A ² ·s
Mechanical service life (switching cycles) / typical	6 000
Position / of the switch operating mechanism	after the second pole
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	IP00
Protection class IP	
 with closed switch / with cover or cable lug cover 	IP20
• on the front	IP00
 Dissipation	
Power loss [W]	
with conventional rated thermal current / per pole	50 W
 with conventional rated thermal current / per device 	150 W
 with conventional rated thermal current / without fuse / per pole 	50 W
 with conventional rated thermal current / without fuse / per device 	150 W
• of the fuse / per fuse / maximum	60 W
• maximum	330 W
Operating current	
-	

• at AC-21 A / at 400 V / maximum	800 A
• at AC-21 A / at 500 V / maximum	800 A
• at AC-21 A / at 690 V / maximum	800 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	800 A
• at DC-23 A / at 440 V / rated value / maximum	800 A
• at DC-23 A / at 220 V / rated value / maximum	800 A
• at DC-22 A / at 440 V / rated value / maximum	800 A
• at DC-22 A / at 220 V / rated value / maximum	800 A
• at DC-21 A / at 440 V / rated value / maximum	800 A
• at DC-21 A / at 220 V / maximum	800 A
Continuous current	
• rated value	800 A
• at 40 °C / rated value	800 A
• at 45 °C / rated value	700 A
• at 50 °C / rated value	670 A
• at 55 °C / rated value	630 A
• at 60 °C / rated value	630 A
• at 65 °C / rated value	560 A
• at 70 °C / rated value	560 A
Continuous current / at DC / rated value	800 A
Let-through current / of the fuse / at 500 V / maximum permissible	77 400 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	65 000 A
Let-through current / of the aM fuse / at 690 V / maximum permissible	65 000 A
Let-through current / with closed switch	
 at 690 V / for combination switch + aM fuse / maximum permissible 	46 590 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	46 590 A
• for combination switch + fuse / at 400 V / maximum permissible	58 500 A

 for combination switch + fuse / at 500 V / maximum permissible 	58 500 A
Short-time current resistance (Icw) / at 690 V AC/440	22 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	400 kW
• at 500 V / at 50/60 Hz / rated value	560 kW
• at 690 V / at 50/60 Hz / rated value	800 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	
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 (Icm) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum	44 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	80 kA

Connections	
Arrangement of electrical connectors / for main	Top and bottom
current circuit	
Tightening torque / with screw-type terminals	
• minimum	50 N·m
• maximum	75 N·m
 Type of connectable conductor cross-sections / for copper busbar 	2x (50x5 mm)
Type of connectable conductor cross-sections /	1x (25 300 mm²), 2x (25 300 mm²)
for aluminum conductor / stranded / with lug	1X (23 330 Hill), 2X (20 300 Hill)
• Type of connectable conductor cross-sections /	1x (25 240 mm²), 2x (25 240 mm²)
for copper conductor / stranded / with lug / acc. to	
DIN 46234	
 Type of connectable conductor cross-sections / 	1x (25 300 mm²), 2x (25 300 mm²)
for copper conductor / stranded / with lug / acc. to	
DIN 46235	
Type of electrical connection	
 for main current circuit 	flat connector

Mechanical Design	
Height	270 mm
Width	490 mm
Depth	262 mm
Mounting position	any
Mounting type	floor mounting
Mounting type	
 front mounting with 4-hole attachment 	No
 front mounting with central attachment 	No
• rail mounting	No
Net weight	18 850 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

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=3KF5480-0MF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF5480-0MF11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5480-0MF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







