## **SIEMENS**

Data sheet

## 3KF5480-4RF11

SWITCH DISCONNECTOR FUSE 800A, FRAME SIZE 5, 4-POLE FOR LV HRC FUSE SIZE 2 AND 3 SIDE OPERATING RIGHT 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 right			
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			
l2t value				
<ul> <li>with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	4 100 000 A²·s			

<ul> <li>with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	4 100 000 A <sup>2.</sup> s			
<ul> <li>with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	2 050 000 A <sup>2</sup> ·s			
<ul> <li>with closed switch / at 690 V / for combination switch + aM fuse / maximum</li> </ul>	2 050 000 A <sup>2</sup> ·s			
<ul> <li>of the fuse / at 500 V / maximum permissible</li> </ul>	10 400 000 A <sup>2</sup> ·s			
<ul> <li>of the gG fuse / at 690 V / maximum permissible</li> </ul>	7 000 000 A²·s			
● of the aM fuse / at 690 V / maximum permissible	7 000 000 A²·s			
Mechanical service life (switching cycles) / typical	6 000			
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				
<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	IP00			
Protection class IP				
<ul> <li>with closed switch / with cover or cable lug cover</li> </ul>	IP20			
• on the front	IP00			
Dissipation				
Power loss [W]				
<ul> <li>with conventional rated thermal current / per pole</li> </ul>	50 W			
<ul> <li>with conventional rated thermal current / per device</li> </ul>	150 W			
<ul> <li>with conventional rated thermal current / without fuse / per pole</li> </ul>	50 W			
<ul> <li>with conventional rated thermal current / without fuse / per device</li> </ul>	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	800 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	800 A
/ maximum	
<ul> <li>at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum</li> </ul>	800 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value	800 A
/ maximum	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	800 A
/ maximum	
• 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 /	77 400 A
maximum permissible	
Let-through current / of the gG fuse / at 690 V /	65 000 A
maximum permissible	
Let-through current / of the aM fuse / at 690 V /	65 000 A
maximum permissible	
Let-through current / with closed switch	46 590 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 /</li> </ul>	46 590 A
maximum permissible	
• for combination switch + fuse / at 400 V /	58 500 A
maximum permissible	

<ul> <li>for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	58 500 A			
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	22 kA			
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 contacts	0			
Number of connected NO contacts / for auxiliary contacts	0			
Number of connected CO contacts / for auxiliary contacts	0			
Suitability for use				
Main switch	Yes			
switch disconnector	Yes			
EMERGENCY OFF switch	Yes			
<ul> <li>safety switch</li> </ul>	Yes			
<ul> <li>maintenance/repair switch</li> </ul>	Yes			
Product feature / interlock	No			
Product component				
Voltage trigger	No			
<ul> <li>undervoltage release</li> </ul>	No			
<ul> <li>undervoltage release with leading contact</li> </ul>	No			
Product feature / sealable	Yes			
Product extension				
Auxiliary switch	Yes			
• optional				
— locking capability	Yes			
— motor drive	No			
— fuse monitoring	Yes			
Product function				
<ul> <li>fuse monitoring</li> </ul>	No			
Short circuit				

Short-circuit current making capacity (Icm) / for switch disconnector / at 690 V AC/440 V DC / without	44 kA		
fuse link / rated value / minimum			
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		
<ul> <li>Type of connectable conductor cross-sections / for copper busbar</li> </ul>	2x (50x5 mm)		
<ul> <li>Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug</li> </ul>	1x (25 300 mm²), 2x (25 300 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234	1x (25 240 mm²), 2x (25 240 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (25 300 mm²), 2x (25 300 mm²)		
Type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	flat connector		
Mechanical Design			
Height	270 mm		
Width	511 mm		
Depth	262 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	19 050 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	С	other	
(m)	DVE		Miscellaneous	
CCC				

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=3KF5480-4RF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF5480-4RF11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF5480-4RF11

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://www.siemens.com/specifications







