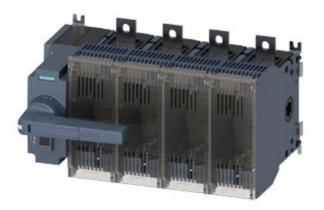
## **SIEMENS**

Data sheet

## 3KF4440-2LF11

SWITCH DISCONNECTOR FUSE 400A, FRAME SIZE 4, 4-POLE FOR LV HRC FUSE SIZE 1 AND 2 FRONT OPERATING LEFT COMPLETE ASSEMBLY DIRECT OPERATING MECHANISM GREY 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	manual operating mechanism		
Design of handle	Direct operating mechanism, gray		
Direction of actuation	from the front		
Type of the driving mechanism / motor drive	No		
Number of poles	4		
Size of disconnecting link	2 and 1		
Size of switch disconnector	4		
Size of fuse link	NH1, NH2		
Electrical endurance (switching cycles)			
• at AC-23 A / at 440 V / at 50/60 Hz	3 000		
• at AC-23 A / at 690 V / at 50/60 Hz	2 000		
• at DC-23 A / at 440 V	1 000		
l2t value			
<ul> <li>with closed switch / for combination switch + fuse / at 500 V / maximum</li> </ul>	1 205 000 A²⋅s		

<ul> <li>with closed switch / for combination switch + fuse / at 400 V / maximum</li> </ul>	1 205 000 A²·s			
<ul> <li>with closed switch / at 690 V / for combination switch + gG fuse / maximum</li> </ul>	1 300 000 A <sup>2.</sup> s			
<ul> <li>with closed switch / at 690 V / for combination switch + aM fuse / maximum</li> </ul>	1 300 000 A <sup>2.</sup> s			
<ul> <li>of the fuse / at 500 V / maximum permissible</li> </ul>	2 150 000 A <sup>2</sup> ·s			
<ul> <li>of the gG fuse / at 690 V / maximum permissible</li> </ul>	2 600 000 A <sup>2.</sup> s			
● of the aM fuse / at 690 V / maximum permissible	2 600 000 A <sup>2</sup> ·s			
Mechanical service life (switching cycles) / typical	8 000			
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	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>	26 W			
<ul> <li>with conventional rated thermal current / per device</li> </ul>	78 W			
<ul> <li>with conventional rated thermal current / without fuse / per pole</li> </ul>	26 W			
• with conventional rated thermal current / without fuse / per device	78 W			
• of the fuse / per fuse / maximum	34 W			
● maximum	180 W			
Operating current				

• at AC-21 A / at 400 V / maximum	400 A
• at AC-21 A / at 500 V / maximum	400 A
• at AC-21 A / at 690 V / maximum	400 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	400 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	400 A
/ maximum	
● at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	400 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	400 A
<ul> <li>at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum</li> </ul>	400 A
• at DC-23 A / at 440 V / rated value / maximum	400 A
• at DC-23 A / at 220 V / rated value / maximum	400 A
• at DC-22 A / at 440 V / rated value / maximum	400 A
• at DC-22 A / at 220 V / rated value / maximum	400 A
• at DC-21 A / at 440 V / rated value / maximum	400 A
• at DC-21 A / at 220 V / maximum	400 A
Continuous current	
• rated value	400 A
• at 40 °C / rated value	400 A
• at 45 °C / rated value	350 A
• at 50 °C / rated value	315 A
• at 55 °C / rated value	315 A
• at 60 °C / rated value	315 A
• at 65 °C / rated value	280 A
• at 70 °C / rated value	280 A
Continuous current / at DC / rated value	400 A
Let-through current / of the fuse / at 500 V /	37 100 A
maximum permissible	
Let-through current / of the gG fuse / at 690 V /	47 000 A
maximum permissible	
Let-through current / of the aM fuse / at 690 V /	47 000 A
maximum permissible	
Let-through current / with closed switch	
<ul> <li>at 690 V / for combination switch + aM fuse / maximum permissible</li> </ul>	41 140 A
<ul> <li>at 690 V / for combination switch + gG fuse /</li> </ul>	41 140 A
maximum permissible	
<ul> <li>for combination switch + fuse / at 400 V / maximum permissible</li> </ul>	39 400 A

<ul> <li>for combination switch + fuse / at 500 V / maximum permissible</li> </ul>	39 400 A			
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	12 kA			
Main circuit				
Operating power / at AC-23 A				
• at 400 V / at 50/60 Hz / rated value	220 kW			
• at 500 V / at 50/60 Hz / rated value	280 kW			
• at 690 V / at 50/60 Hz / rated value	400 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			
<ul> <li>switch disconnector</li> </ul>	Yes			
EMERGENCY OFF switch	No			
<ul> <li>safety switch</li> </ul>	Yes			
<ul> <li>maintenance/repair switch</li> </ul>	Yes			
Product feature / interlock	Yes			
Product component				
Voltage trigger	No			
• undervoltage release	No			
<ul> <li>undervoltage release with leading contact</li> </ul>	No			
Product feature / sealable	Yes			
Product extension				
Auxiliary switch	Yes			
• optional				
— locking capability	No			
— 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 fuse link / rated value / minimum	24 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	30 N·m		
• maximum	44 N·m		
<ul> <li>Type of connectable conductor cross-sections / for copper busbar</li> </ul>	1x (30x10 mm)		
<ul> <li>Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug</li> </ul>	1x (6 240 mm²), 2x (6 150 mm²)		
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234</li> </ul>	1x (6 240 mm²), 2x (6 150 mm²)		
<ul> <li>Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235</li> </ul>	1x (16 185 mm²), 2x (16 150 mm²)		
Type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	flat connector		
Mechanical Design			
Height	215 mm		
Width	363 mm		
Depth	269.6 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	8 150 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		
during storage / maximum	80 °C		

Certificates				
Equipment marking /	acc. to DIN EN 61346-2	Q		
General Product	Approval		other	
$(\mathbf{m})$	DE		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=3KF4440-2LF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF4440-2LF11\_\_\_\_\_

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KF4440-2LF11

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

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

