SIEMENS

Data sheet

3KF4440-4RF11

SWITCH DISCONNECTOR FUSE 400A, FRAME SIZE 4, 4-POLE FOR LV HRC FUSE SIZE 1 AND 2 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	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				
 with closed switch / for combination switch + fuse / at 500 V / maximum 	1 205 000 A ^{2.} s			

 with closed switch / for combination switch + fuse / at 400 V / maximum 	1 205 000 A ² ·s			
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	1 300 000 A ² ·s			
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	1 300 000 A ^{2.} s			
 of the fuse / at 500 V / maximum permissible 	2 150 000 A ² ·s			
 of the gG fuse / at 690 V / maximum permissible 	2 600 000 A ² ·s			
● of the aM fuse / at 690 V / maximum permissible	2 600 000 A ² ·s			
Mechanical service life (switching cycles) / typical	8 000			
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	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 	26 W			
 with conventional rated thermal current / per device 	78 W			
 with conventional rated thermal current / without fuse / per pole 	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 / maximum	400 A
● at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	400 A
• 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
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	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	
 at 690 V / for combination switch + aM fuse / maximum permissible 	41 140 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	41 140 A
 for combination switch + fuse / at 400 V / maximum permissible 	39 400 A

 for combination switch + fuse / at 500 V / maximum permissible 	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			
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				

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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		
 Type of connectable conductor cross-sections / for copper busbar 	1x (30x10 mm)		
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (6 240 mm²), 2x (6 150 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234	1x (6 240 mm²), 2x (6 150 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (16 185 mm²), 2x (16 150 mm²)		
Type of electrical connection			
 for main current circuit 	flat connector		
Mechanical Design			
Height	215 mm		
Width	376.5 mm		
Depth	206.5 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	7 700 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	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=3KF4440-4RF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF4440-4RF11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF4440-4RF11

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

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







