SIEMENS

Data sheet

3KF3425-0LF11

SWITCH DISCONNECTOR FUSE 250A, FRAME SIZE 3, 4-POLE FOR LV HRC FUSE SIZE 0 AND 1 FRONT OPERATING LEFT 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	1 and 0		
Size of switch disconnector	3		
Size of fuse link	NH0, NH1		
Electrical endurance (switching cycles)			
• at AC-23 A / at 440 V / at 50/60 Hz	5 000		
• at AC-23 A / at 690 V / at 50/60 Hz	4 000		
• at DC-23 A / at 440 V	1 000		
I2t value			
 with closed switch / for combination switch + fuse / at 500 V / maximum 	437 000 A ² ·s		

 with closed switch / for combination switch + fuse / at 400 V / maximum 	437 000 A ² ·s		
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	490 100 A ² ·s		
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	490 100 A ² ·s		
 of the fuse / at 500 V / maximum permissible 	1 500 000 A²·s		
 of the gG fuse / at 690 V / maximum permissible 	940 000 A²·s		
● of the aM fuse / at 690 V / maximum permissible	1 400 000 A ² ·s		
Mechanical service life (switching cycles) / typical	10 000		
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			
 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 	15 W		
 with conventional rated thermal current / per device 	45 W		
 with conventional rated thermal current / without fuse / per pole 	15 W		
 with conventional rated thermal current / without fuse / per device 	45 W		
• of the fuse / per fuse / maximum	25.5 W		
• maximum	121.5 W		
Operating current			

● at AC-21 A / at 400 V / maximum	250 A
● at AC-21 A / at 500 V / maximum	250 A
• at AC-21 A / at 690 V / maximum	250 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	250 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	250 A
/ maximum	
● at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	250 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	250 A
 at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum 	250 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	250 A
• at DC-23 A / at 440 V / rated value / maximum	250 A
• at DC-23 A / at 220 V / rated value / maximum	250 A
• at DC-22 A / at 440 V / rated value / maximum	250 A
• at DC-22 A / at 220 V / rated value / maximum	250 A
• at DC-21 A / at 440 V / rated value / maximum	250 A
• at DC-21 A / at 220 V / maximum	250 A
Continuous current	
• rated value	250 A
• at 40 °C / rated value	250 A
• at 45 °C / rated value	250 A
• at 50 °C / rated value	250 A
• at 55 °C / rated value	250 A
• at 60 °C / rated value	250 A
• at 65 °C / rated value	250 A
• at 70 °C / rated value	200 A
Continuous current / at DC / rated value	250 A
Let-through current / of the fuse / at 500 V /	33 700 A
maximum permissible	
Let-through current / of the gG fuse / at 690 V /	37 700 A
maximum permissible	
Let-through current / of the aM fuse / at 690 V /	39 700 A
maximum permissible	
Let-through current / with closed switch	
• at 690 V / for combination switch + aM fuse /	30 310 A
maximum permissible	20.240 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	30 310 A
 for combination switch + fuse / at 400 V / maximum permissible 	28 700 A

 for combination switch + fuse / at 500 V / maximum permissible 	28 700 A		
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	8 kA		
Main circuit			
Operating power / at AC-23 A			
• at 400 V / at 50/60 Hz / rated value	132 kW		
• at 500 V / at 50/60 Hz / rated value	160 kW		
• at 690 V / at 50/60 Hz / rated value	250 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			

Short-circuit current making capacity (Icm) / for	13.6 kA		
switch disconnector / at 690 V AC/440 V DC / without 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 	100 KA		
a use v by go luse / lated value			
Connections			
Arrangement of electrical connectors / for main	Top and bottom		
current circuit			
Tightening torque / with screw-type terminals	20 N		
• minimum	30 N·m		
• maximum	44 N·m		
 Type of connectable conductor cross-sections / for copper busbar 	1x (25x3 mm)		
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (6 240 mm²), 2x (6 120 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234	1x (6 240 mm²), 2x (6 120 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (6 240 mm²), 2x (6 120 mm²)		
Type of electrical connection			
• for main current circuit	flat connector		
Mechanical Design			
Height	207 mm		
Width	308.5 mm		
Depth	188.5 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	5 350 g		
Environmental conditions			
Degree of pollution	3		
Ambient temperature			
during operation / minimum	-25 °C		
during operation / maximum	70 °C		
during operation / maximum during storage / minimum	-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=3KF3425-0LF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF3425-0LF11_____

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF3425-0LF11

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

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







