SIEMENS

Data sheet

3KF2316-4LF11

SWITCH DISCONNECTOR FUSE 160A, FRAME SIZE 2, 3-POLE FOR LV HRC FUSE SIZE 000 AND 00 SIDE 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 left		
Type of the driving mechanism / motor drive	No		
Number of poles	3		
Size of disconnecting link	00 and 000		
Size of switch disconnector	2		
Size of fuse link	NH000, NH00		
Electrical endurance (switching cycles)			
• at AC-23 A / at 440 V / at 50/60 Hz	8 000		
• at AC-23 A / at 690 V / at 50/60 Hz	5 000		
• at DC-23 A / at 440 V	1 000		
l2t value			
 with closed switch / for combination switch + fuse / at 500 V / maximum 	150 600 A²·s		

 with closed switch / for combination switch + fuse / at 400 V / maximum 	150 600 A ² ·s			
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	89 640 A²·s			
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	89 640 A ² ·s			
• of the fuse / at 500 V / maximum permissible	223 000 A ² ·s			
 of the gG fuse / at 690 V / maximum permissible 	360 000 A ² ·s			
 of the aM fuse / at 690 V / maximum permissible 	375 000 A²·s			
Mechanical service life (switching cycles) / typical	12 000			
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			
vissipation				
Power loss [W]				
 with conventional rated thermal current / per pole 	7.2 W			
·				
 with conventional rated thermal current / per device 	21.6 W			
-	21.6 W 7.2 W			
devicewith conventional rated thermal current /				
 device with conventional rated thermal current / without fuse / per pole with conventional rated thermal current / 	7.2 W			
 device with conventional rated thermal current / without fuse / per pole with conventional rated thermal current / without fuse / per device 	7.2 W 21.6 W			

• at AC-21 A / at 400 V / maximum	160 A
● at AC-21 A / at 500 V / maximum	160 A
• at AC-21 A / at 690 V / maximum	160 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	160 A
/ maximum	
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	160 A
/ maximum	
• at AC-22 A / at 400 V / at 50/60 Hz / rated value	160 A
/ maximum	400 A
 at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum 	160 A
 at AC-23 A / at 400 V / at 50/60 Hz / rated value 	160 A
/ maximum	
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	160 A
/ maximum	
• at DC-23 A / at 440 V / rated value / maximum	160 A
• at DC-23 A / at 220 V / rated value / maximum	160 A
• at DC-22 A / at 440 V / rated value / maximum	160 A
• at DC-22 A / at 220 V / rated value / maximum	160 A
• at DC-21 A / at 440 V / rated value / maximum	160 A
• at DC-21 A / at 220 V / maximum	160 A
Continuous current	
• rated value	160 A
• at 40 °C / rated value	160 A
● at 45 °C / rated value	160 A
• at 50 °C / rated value	160 A
• at 55 °C / rated value	160 A
● at 60 °C / rated value	160 A
● at 65 °C / rated value	160 A
• at 70 °C / rated value	160 A
Continuous current / at DC / rated value	160 A
Let-through current / of the fuse / at 500 V /	18 000 A
maximum permissible	
Let-through current / of the gG fuse / at 690 V /	25 500 A
maximum permissible	
Let-through current / of the aM fuse / at 690 V /	28 100 A
maximum permissible	
Let-through current / with closed switch	
 at 690 V / for combination switch + aM fuse / maximum permissible 	16 870 A
 at 690 V / for combination switch + gG fuse / 	16 870 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	
 for combination switch + fuse / at 400 V / 	18 200 A
maximum permissible	

 for combination switch + fuse / at 500 V / maximum permissible 	18 200 A		
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	5 kA		
Main circuit			
Operating power / at AC-23 A			
• at 400 V / at 50/60 Hz / rated value	90 kW		
• at 500 V / at 50/60 Hz / rated value	110 kW		
• at 690 V / at 50/60 Hz / rated value	132 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 switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum	7.65 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	15 N·m		
• maximum	22 N·m		
 Type of connectable conductor cross-sections / for copper busbar 	1x (20x3 mm)		
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (2.5 95 mm²), 2x (2.5 50 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234	1x (2.5 95 mm²), 2x (2.5 50 mm²)		
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235	1x (25 70 mm²), 2x (25 50 mm²)		
Type of electrical connection			
• for main current circuit	flat connector		
Mechanical Design			
Height	150 mm		
Width	203.7 mm		
Depth	161.5 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	2 300 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	
CCC	VDE			

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=3KF2316-4LF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF2316-4LF11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2316-4LF11

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

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







