SIEMENS

Data sheet

3KF2412-2LF11

SWITCH DISCONNECTOR FUSE 125A, FRAME SIZE 2, 4-POLE FOR LV HRC FUSE SIZE 000 AND 00 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	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 A²·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 A²·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 A²·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 	4.2 W			
-				
 with conventional rated thermal current / per device 	12.6 W			
-	12.6 W 4.2 W			
devicewith conventional rated thermal current /				
 device with conventional rated thermal current / without fuse / per pole with conventional rated thermal current / 	4.2 W			
 device with conventional rated thermal current / without fuse / per pole with conventional rated thermal current / without fuse / per device 	4.2 W 12.6 W			

• at AC-21 A / at 400 V / maximum	125 A
● at AC-21 A / at 500 V / maximum	125 A
• at AC-21 A / at 690 V / maximum	125 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value	125 A
/ maximum	
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	125 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	125 A
 at DC-23 A / at 440 V / rated value / maximum 	125 A
• at DC-23 A / at 220 V / rated value / maximum	125 A
• at DC-22 A / at 440 V / rated value / maximum	125 A
• at DC-22 A / at 220 V / rated value / maximum	125 A
• at DC-21 A / at 440 V / rated value / maximum	125 A
• at DC-21 A / at 220 V / maximum	125 A
Continuous current	
• rated value	125 A
 at 40 °C / rated value 	125 A
● at 45 °C / rated value	125 A
● at 50 °C / rated value	125 A
● at 55 °C / rated value	125 A
● at 60 °C / rated value	125 A
• at 65 °C / rated value	125 A
• at 70 °C / rated value	125 A
Continuous current / at DC / rated value	125 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 parmissible 	16 870 A
maximum permissible	16 970 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	16 870 A
 for combination switch + fuse / at 400 V / maximum permissible 	18 200 A

 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	55 kW			
• at 500 V / at 50/60 Hz / rated value	75 kW			
• at 690 V / at 50/60 Hz / rated value	110 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	No			
 safety switch 	Yes			
 maintenance/repair switch 	Yes			
Product feature / interlock	Yes			
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	No			
— 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 (15x3 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	237 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	3 050 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)

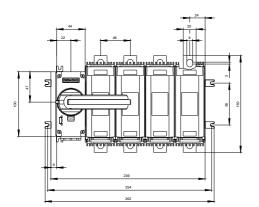
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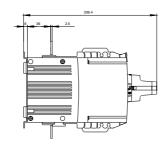
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KF2412-2LF11_____

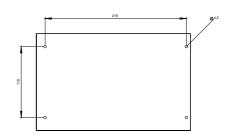
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2412-2LF11

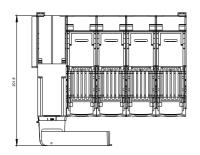
CAx-Online-Generator http://www.siemens.com/cax

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









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