SIEMENS

Data sheet

3KF2412-0MF11



Switch disconnector with fuse 125 A, Size 2, 4-pole for LV HRC fuse Sz. 000 and 00 Front operating mechanism center Basic unit without handle flat terminal

Model			
product brand name	SENTRON		
product designation	3KF switch disconnector with fuses		
design of the product	3KF switch disconnector with fuses		
product variations	3KF NH		
design of the actuating element	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	00 and 000		
size of switch disconnector	2		
size of fuse link	NH000, NH00		
mechanical service life (operating cycles) typical	12 000		
electrical endurance (operating cycles)			
• at AC-23 A at 440 V	8 000		
• at AC-23 A at 690 V	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 A ² ·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		
 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	565 000 A ² ·s		
position of the switch operating mechanism	center right		
fuse system	LV HRC fuse		
overvoltage category	IV		
operating voltage with current paths in series			
 with degree of pollution 2 at DC rated value 	440 / 3		
 with degree of pollution 3 at DC rated value 	440 / 3		
surge voltage resistance rated value	12 kV		
Supply voltage			
operating voltage at AC rated value maximum	690 V		
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]	
	4.0.14
with conventional rated thermal current per pole	4.2 W
 with conventional rated thermal current per device with conventional rated thermal current without fuse per 	12.6 W 4.2 W
with conventional rated thermal current without fuse per	12.6 W
devicefor rated value of the current at AC in hot operating state	4.2 W
per pole	44.147
of the fuse per fuse maximum	11 W
Main circuit	75.114
operating power at AC-23 A at 500 V rated value	75 kW
operational current rated value	125 A
Auxiliary circuit	0
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
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	6
number of NO contacts for auxiliary contacts	6
suitability for use	
main switch	Yes
 switch disconnector 	Yes
EMERGENCY OFF switch	Yes
 safety switch 	Yes
maintenance/repair switch	Yes
product component	
 voltage trigger 	No
 undervoltage release 	No
 undervoltage release with leading contact 	No
product feature sealable	Yes
product extension auxiliary switch	Yes
product extension optional	
 locking capability 	Yes
motor drive	No
fuse monitoring	Yes
product function	
fuse monitoring	No
 overvoltage protection 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 aluminum conductor stranded with lug	1x (2.5 95 mm²), 2x (2.5 50 mm²)
type of connectable conductor cross-sections	
 for copper busbar 	1x (15 x 3 mm²)
type of connectable conductor cross-sections for copper conductor	
 stranded with lug according to DIN 46234 	1x (2.5 95 mm²), 2x (2.5 50 mm²)
 stranded with lug according 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			236.7	7 mm		
depth		161.5 mm				
fastening method		floor mounting				
fastening method						
• 4-hole front mounting		No				
 front mounting with central attachment 		No				
rail mounting		No				
mounting position	mounting position					
net weight	net weight		2 750) g		
Environmental condition	S					
ambient temperature during operation						
 minimum 	• minimum		-25 °C			
 maximum 	• maximum		70 °C			
ambient temperature dur	ambient temperature during storage					
 minimum 	• minimum		-50 °C			
 maximum 	• maximum		80 °C			
Approvals Certificates						
General Product Appro	oval					Declaration of Con- formity
	<u>Confirmation</u>			<u>Miscellaneous</u>	EHC	UK CA
Declaration of Con- formity	Test Certificates	Marine / Shippi	ng	other		Environment
CE EG-Konf.	Type Test Certific- ates/Test Report	DNV-GL DNV-GL		<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.sieme s.com/cs/ww/en/view/109813875

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=3KF2412-0MF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

t.industry.siemens.com/cs/ww/en/ps/3KF2412-0MF11 https://suppo

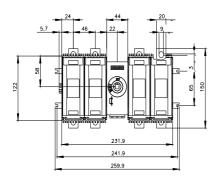
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2412-0MF11

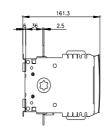
CAx-Online-Generator

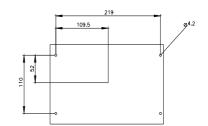
http://www.siemens.com/cax

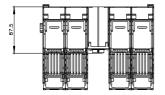
Tender specifications

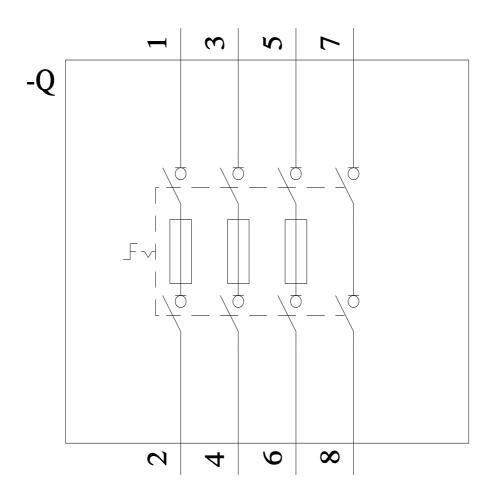
http://www.siemens.com/specifications

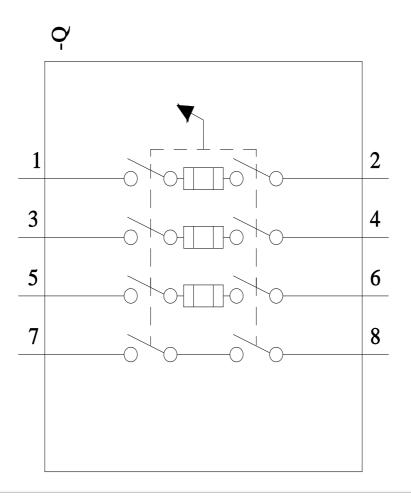












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