SIEMENS

Data sheet 3KF3425-0MF11

SWITCH DISCONNECTOR FUSE 250A, FRAME SIZE 3, 4-POLE FOR LV HRC FUSE SIZE 0 AND 1 FRONT OPERATING CENTER 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

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 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 / maximum	250 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	250 A
• 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 / maximum permissible	33 700 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	37 700 A
Let-through current / of the aM fuse / at 690 V /	39 700 A
maximum permissible	
Let-through current / with closed switch	20.240.4
 at 690 V / for combination switch + aM fuse / maximum permissible 	30 310 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 (lcw) / 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	0
contacts	
Number of connected NO contacts / for auxiliary	0
contacts	
Number of connected CO contacts / for auxiliary	0
contacts	
Suitability for use Main switch	Yes
	Yes
• switch disconnector	Yes
EMERGENCY OFF switch	
• safety switch	Yes
maintenance/repair switch	Yes
Product feature / interlock	No
Product component	No
Voltage trigger	No
undervoltage release	No
undervoltage release with leading contact	No
Product feature / sealable	Yes
Product extension	Van
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	13.6 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	Top and bottom
current circuit	
Tightening torque / with screw-type terminals	
• 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	306.7 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 storage / minimum	-50 °C
during storage / maximum	80 °C

Certificates

Equipment marking / acc. to DIN EN 61346-2

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General Product Approval

other





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=3KF3425-0MF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF3425-0MF11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF3425-0MF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







