SIEMENS

3KF3325-0MF11-8AA1 Data sheet

SWITCH DISCONNECTOR FUSE 250A, FRAME SIZE 3, 3-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	3
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 with closed switch / at 690 V / for combination 	437 000 A ² ·s
switch + gG fuse / maximum	490 100 A²·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	490 100 A²·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 A²·s
Mechanical service life (switching cycles) / typical	10 000
Position / of the switch operating mechanism	after the first pole
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 /	15 W
without fuse / per pole	45.44
	45 W
without fuse / per pole with conventional rated thermal current /	45 W 25.5 W
without fuse / per pole with conventional rated thermal current / without fuse / per device	

• 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 / maximum permissible	39 700 A
Let-through current / with closed switch	
 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

Short-time current resistance (low) / at 690 V AC/440 V DC / limited to 1 s / rated value 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 • at 690 V / at 50/60 Hz / rated value • at 67 / rated value / maximum 690 V Operating voltage • at AC / at 50/60 Hz / rated value • at AC / rated value / maximum 690 V Auxiliary circuit Number of connected NC contacts / for auxiliary contacts Number of connected NC contacts / for auxiliary contacts Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Ves Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release • undervoltage release with leading contact • Auxiliary switch • coptional — locking capability — motor drive — fuse monitoring • use monitoring No	 for combination switch + fuse / at 500 V / maximum permissible 	28 700 A
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 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 Number of connected NO contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Suitability for use • Main switch Yes • switch disconnector Yes • safety switch Yes • after switch Yes		8 kA
at 400 V / at 50/60 Hz / rated value at 500 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at 690 V at AC / at 50/60 Hz / rated value at C / rated value / maximum 690 V Auxiliary circuit Number of connected NC contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Suitability for use Main switch switch disconnector safety switch safety switch affer switch safety switch affer switch Product feature / interlock Product feature / interlock Product component Voltage trigger undervoltage release undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch product gapability motor drive product function Product function	Main circuit	
at 500 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value background of the content of	Operating power / at AC-23 A	
• 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 Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use • Main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • safety switch • safety switch • maintenance/repair switch Yes Product feature / interlock No Product component • Voltage trigger No • undervoltage release with leading contact No Product feature / sealable Yes Product teature / sealable Yes Product extension • Auxiliary switch Yes • optional — locking capability — motor drive — fuse monitoring Product function	 at 400 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 Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use • Main switch Yes • switch disconnector Yes • switch disconnector Yes • safety switch Yes • safety switch Yes • safety switch Yes • maintenance/repair switch Yes Product feature / interlock No Product component • Voltage trigger No • undervoltage release with leading contact No Product feature / sealable Yes Product feature / sealable Yes Product teature / sealable Yes Product extension • Auxiliary switch • optional — locking capability Yes — motor drive — fuse monitoring Product function	• at 500 V / at 50/60 Hz / rated value	160 kW
at AC / at 50/60 Hz / rated value at AC / rated value / maximum 690 V Auxiliary circuit Number of connected NC contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use Main switch switch / Yes switch disconnector / Yes EMERGENCY OFF switch / Yes safety switch / Yes safety switch / Yes maintenance/repair switch / Yes Product feature / interlock / No Product feature / sealable / Yes Product teature / sealable / Yes Product contact / Yes optional	• at 690 V / at 50/60 Hz / rated value	250 kW
at AC / rated value / maximum Auxiliary circuit Number of connected NC contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock Product reature / interlock No Product component Voltage trigger undervoltage release undervoltage release with leading contact No Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive fuse monitoring Product function	Operating voltage	
Number of connected NC contacts / for auxiliary contacts Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • safety switch • maintenance/repair switch Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring Product function	• at AC / at 50/60 Hz / rated value	690 V
Number of connected NC contacts / for auxillary contacts Number of connected NO contacts / for auxillary contacts Number of connected CO contacts / for auxillary contacts Number of connected CO contacts / for auxillary contacts Sultability for use	• at AC / rated value / maximum	690 V
Number of connected NC contacts / for auxillary contacts Number of connected NO contacts / for auxillary contacts Number of connected CO contacts / for auxillary contacts Number of connected CO contacts / for auxillary contacts Sultability for use	Auxiliany circuit	
contacts Number of connected NO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Number of connected CO contacts / for auxiliary contacts Suitability for use Main switch Switch disconnector EMERGENCY OFF switch Safety switch Safety switch Main switch No Product feature / interlock Product component Voltage trigger Mo undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch Syes Product extension Auxiliary switch Syes Product disconnection Froduct feature / sealable Product extension Auxiliary switch Syes Product extension Froduct extension Auxiliary switch Syes Froduct feature / sea monitoring Product feature / sea monitoring Product feature / sea monitoring Product function		0
contacts Number of connected CO contacts / for auxiliary contacts Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — motor drive — fuse monitoring Product function	-	
Number of connected CO contacts / for auxiliary contacts Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product feature / interlock Product component • Voltage trigger • undervoltage release with leading contact Product setaure / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring Product function	Number of connected NO contacts / for auxiliary	0
contacts Suitability for use Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Yes Product feature / interlock No Product sealable Product sealable Product extension Auxiliary switch Optional — locking capability — motor drive — fuse monitoring Product function Product function Product function Suitability for use Ves Product switch Yes Ves Product sealable Yes Product extension Auxiliary switch Yes Product sealable Yes Product fixen ye witch Yes Product fixen ye witch Yes Product fixen ye witch Yes Product fixen monitoring Yes Product function	contacts	
Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • maintenance/repair switch Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — motor drive — fuse monitoring Product function	-	0
 Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch maintenance/repair switch Product component Voltage trigger undervoltage release undervoltage release with leading contact Product feature / sealable Yes Product extension Auxiliary switch optional locking capability motor drive motor drive No Product function 		
switch disconnector EMERGENCY OFF switch safety switch safety switch maintenance/repair switch Product feature / interlock Product component Voltage trigger No undervoltage release undervoltage release with leading contact Product eature / sealable Product extension Auxiliary switch optional — locking capability — motor drive — fuse monitoring Product function Product function Switch Yes Product function	Suitability for use	
EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock Product component Voltage trigger undervoltage release undervoltage release with leading contact Product extension Auxiliary switch optional — locking capability — motor drive — fuse monitoring Product function Yes Product function	Main switch	Yes
 safety switch maintenance/repair switch Product feature / interlock No Product component Voltage trigger undervoltage release undervoltage release with leading contact undervoltage release with leading contact Product feature / sealable Yes Product extension Auxiliary switch optional locking capability motor drive motor drive fuse monitoring Product function Froduct function	switch disconnector	
 maintenance/repair switch Product feature / interlock No Product component Voltage trigger undervoltage release undervoltage release with leading contact undervoltage release with leading contact Product feature / sealable Yes Product extension Auxiliary switch optional locking capability motor drive motor drive no Froduct function Product function 	 EMERGENCY OFF switch 	Yes
Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring Product function	safety switch	Yes
Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring Product function	 maintenance/repair switch 	Yes
 Voltage trigger undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive fuse monitoring Product function Product function No Yes Product function	Product feature / interlock	No
 undervoltage release undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive fuse monitoring Product function Product function	Product component	
 undervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive fuse monitoring Product function No Yes Product function	 Voltage trigger 	No
Product feature / sealable Product extension Auxiliary switch optional locking capability motor drive fuse monitoring Product function Yes Yes Yes Yes Yes Yes Yes Ye	 undervoltage release 	No
Product extension	 undervoltage release with leading contact 	No
 ◆ Auxiliary switch ◆ optional ─ locking capability ─ motor drive ─ fuse monitoring Product function Yes Yes Product function	Product feature / sealable	Yes
● optional — locking capability — motor drive — fuse monitoring Product function Yes Yes Yes	Product extension	
 — locking capability — motor drive — fuse monitoring Product function Yes Product function	Auxiliary switch	Yes
— motor drive No Yes Product function	• optional	
— fuse monitoring Yes Product function	— locking capability	Yes
Product function	— motor drive	No
	— fuse monitoring	Yes
• fuse monitoring No	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	249.5 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	4 250 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=3KF3325-0MF11-8AA1

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF3325-0MF11-8AA1

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF3325-0MF11-8AA1

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







