SIEMENS

Data sheet 3KF5463-0MF11

SWITCH DISCONNECTOR FUSE 630A, FRAME SIZE 5, 4-POLE FOR LV HRC FUSE SIZE 2 AND 3 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	3 and 2
Size of switch disconnector	5
Size of fuse link	NH2, NH3
Electrical endurance (switching cycles)	
• at AC-23 A / at 440 V / at 50/60 Hz	1 500
• at AC-23 A / at 690 V / at 50/60 Hz	1 000
• at DC-23 A / at 440 V	1 000
I2t value	
 with closed switch / for combination switch + fuse / at 500 V / maximum 	4 100 000 A ² ·s

 with closed switch / for combination switch + fuse / at 400 V / maximum 	4 100 000 A ² ·s
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	2 050 000 A ² ·s
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	2 050 000 A ² ·s
• of the fuse / at 500 V / maximum permissible	10 400 000 A²·s
 of the gG fuse / at 690 V / maximum permissible 	7 000 000 A ² ·s
 of the aM fuse / at 690 V / maximum permissible 	7 000 000 A ² ·s
Mechanical service life (switching cycles) / typical	6 000
Position / of the switch operating mechanism	after the second 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 	40 W
 with conventional rated thermal current / per device 	120 W
 with conventional rated thermal current / without fuse / per pole 	40 W
 with conventional rated thermal current / without fuse / per device 	120 W
• of the fuse / per fuse / maximum	48 W
• maximum	264 W
Operating current	

• at AC-21 A / at 400 V / maximum	630 A
• at AC-21 A / at 500 V / maximum	630 A
• at AC-21 A / at 690 V / maximum	630 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at DC-23 A / at 440 V / rated value / maximum	630 A
• at DC-23 A / at 220 V / rated value / maximum	630 A
• at DC-22 A / at 440 V / rated value / maximum	630 A
• at DC-22 A / at 220 V / rated value / maximum	630 A
• at DC-21 A / at 440 V / rated value / maximum	630 A
• at DC-21 A / at 220 V / maximum	630 A
Continuous current	
• rated value	630 A
• at 40 °C / rated value	630 A
• at 45 °C / rated value	630 A
• at 50 °C / rated value	630 A
• at 55 °C / rated value	630 A
• at 60 °C / rated value	630 A
• at 65 °C / rated value	560 A
• at 70 °C / rated value	560 A
Continuous current / at DC / rated value	630 A
Let-through current / of the fuse / at 500 V / maximum permissible	77 400 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	65 000 A
Let-through current / of the aM fuse / at 690 V /	65 000 A
maximum permissible	
Let-through current / with closed switch	40 F00 A
 at 690 V / for combination switch + aM fuse / maximum permissible 	46 590 A
 at 690 V / for combination switch + gG fuse / maximum permissible 	46 590 A
 for combination switch + fuse / at 400 V / maximum permissible 	58 500 A

for combination switch + fuse / at 500 V / maximum permissible Short-time current resistance (lcw) / at 690 V AC/440 V DC / limited to 1 s / rated value Main circuit Operating power / at AC-23 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 • 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 AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • at AC / at 50/60 Hz / rated value • 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 Number of connected NC contacts / for auxiliary contacts Suitability for use • Main switch • switch disconnector • EMERGENCY OFF switch • safety switch • asfety switch • ration in the foliation of		58 500 A
Main circuit Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 600 V / at 50/60 Hz / rated value • at 600 V / at 50/60 Hz / rated value • at AC / rated value / maximum 690 V Operating voltage • at AC / rated value / maximum 690 V Auxiliarry circuit Number of connected NC contacts / for auxiliary contacts Number of connected NC contacts / for auxiliary contacts Number of connected NO 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 • undervoltage release with leading contact • ves Product feature / sealable Product feature / sealable Product feature / sealable Product feature / sealable Product gazenson • Auxiliary switch • optional — locking capability — motor drive — fuse monitoring Product function		22 14
Main circuit Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value		ZZ KA
Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value	V 20 / III/III.cu to 1 3 / Tutou Valuo	
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 630 kW Operating voltage at AC / at 50/60 Hz / rated value 630 V 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 switch ves Main switch safety switch safety switch safety switch safety switch Tess Main contacts Product feature / interlock No Product feature / interlock No Product tendervoltage release undervoltage release undervoltage release with leading contact Auxiliary switch old product extension Auxiliary switch Optional Coloring capability Coloring Colo		
at 500 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at AC / at 50/60 Hz / rated value at AC / rated value / maximum 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 switch disconnector EMERGENCY OFF switch afety switch for auxiliary circuit Yes Main switch No Product feature / interlock No Product feature / interlock No Product feature / interlock No Product component Voltage trigger Auxiliary switch Ves Product feature / sealable Product extension Auxiliary switch Optional — locking capability — motor drive — fuse monitoring Product function	Operating power / at AC-23 A	
at 690 V at 50/60 Hz / rated value Operating voltage at AC / at 50/60 Hz / rated value 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 disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock Product teature / interlock No Product component Voltage trigger undervoltage release undervoltage release undervoltage release with leading contact Product extension Auxiliary switch yes Product fedure / sealable Product extension Auxiliary switch Yes Product disconnection Auxiliary switch Yes Product fedure / sealable Product extension Auxiliary switch Yes Product fedure / sealable Product extension Auxiliary switch Yes Product extension Auxiliary switch Yes Product fedure / sealable Product extension Auxiliary switch Yes Product extension Auxiliary switch No Product extension	● at 400 V / at 50/60 Hz / rated value	355 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 • safety switch Yes • safety switch Yes • maintenance/repair switch Yes Product feature / interlock No Product feature / interlock No Product feature / sealable Yes Product teature / sealable Yes Product extension • Auxiliary switch Yes • optional — locking capability Yes — motor drive No — fuse monitoring Yes Product function	● at 500 V / at 50/60 Hz / rated value	400 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 disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock Product component Ves undervoltage release undervoltage release with leading contact No Product feature / sealable Product extension Auxiliary switch optional — locking capability — motor drive — fuse monitoring Product function	 at 690 V / at 50/60 Hz / rated value 	630 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 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 No Product feature / sealable Product seature / sealable Product seature / sealable Product seature / sealable Product seature / sealable Product feature / sealable Product seature / sealable Product feature / sealable Product sealable Product feature / sealable Product feature / sealable Product sealable Product sealable Product feature / sealable	Operating voltage	
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 Number of connected CO contacts / for auxillary contacts Suitability for use • Main switch	• at AC / at 50/60 Hz / rated value	690 V
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 disconnector EMERGENCY OFF switch Safety switch Safety switch Maintenance/repair switch Mo Product feature / interlock Product component Voltage trigger Sundervoltage release Sundervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch Syes Product extension Sundervoltage repairity Sundervoltage repairity Sundervoltage repairity Sundervoltage release Sundervolt	at AC / rated value / maximum	690 V
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 disconnector EMERGENCY OFF switch Safety switch Safety switch Maintenance/repair switch Mo Product feature / interlock Product component Voltage trigger Sundervoltage release Sundervoltage release with leading contact Product feature / sealable Product extension Auxiliary switch Syes Product extension Sundervoltage repairity Sundervoltage repairity Sundervoltage repairity Sundervoltage release Sundervolt	Auxiliary 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 • naintenance/repair switch Product feature / interlock Product component • Voltage trigger • undervoltage release • undervoltage release with leading contact Product feature / sealable Product eature / sealable Product extension • Auxiliary switch • optional — locking capability — motor drive — fuse 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 Auxiliary switch Optional — locking capability — motor drive — fuse monitoring Product function Product function	contacts	
Number of connected CO contacts / for auxiliary contacts 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 seature / sealable Yes Product extension • Auxiliary switch Yes • optional — locking capability Yes — motor drive No — 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 Product feature / interlock Product component Voltage trigger undervoltage release undervoltage release with leading contact Product extension Auxiliary switch Poptional Locking capability motor drive motor drive motor disconnection Product function Product function	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 — motor drive — fuse monitoring Product function	-	0
 Main switch switch disconnector EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock No Product component Voltage trigger undervoltage release undervoltage release with leading contact Product extension Auxiliary switch optional locking capability 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 extension Auxiliary switch optional — locking capability — motor drive — motor drive — fuse monitoring Product function Yes Product function	·	V
EMERGENCY OFF switch safety switch maintenance/repair switch Product feature / interlock Product component Voltage trigger 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 function		
safety switch maintenance/repair switch Product feature / interlock Product component Voltage trigger No undervoltage release undervoltage release with leading contact Product feature / sealable Product feature / sealable Product extension Auxiliary switch optional — locking capability — motor drive — fuse monitoring Product function		
 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 Product function		
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	
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		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	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	 undervoltage release 	No
Product extension	 undervoltage release with leading contact 	No
 Auxiliary switch optional locking capability motor drive fuse monitoring Product function Yes No Yes	Product feature / sealable	Yes
● optional — locking capability — motor drive — fuse monitoring Product function	Product extension	
 — locking capability — motor drive — fuse monitoring Product function Yes Product function	 Auxiliary switch 	Yes
— motor drive No — fuse monitoring 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	44 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	80 kA

Connections	
Arrangement of electrical connectors / for main	Top and bottom
current circuit	
Tightening torque / with screw-type terminals	
• minimum	50 N⋅m
• maximum	75 N·m
 Type of connectable conductor cross-sections / for copper busbar 	1x (50x10 mm)
 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x (25 300 mm²), 2x (25 300 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 	1x (25 240 mm²), 2x (25 240 mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (25 300 mm²), 2x (25 300 mm²)
Type of electrical connection	
• for main current circuit	flat connector

Mechanical Design	
Height	270 mm
Width	490 mm
Depth	262 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	18 850 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

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=3KF5463-0MF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF5463-0MF11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5463-0MF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







