SIEMENS

Data sheet 3KF5380-4LF11

SWITCH DISCONNECTOR FUSE 800A, FRAME SIZE 5, 3-POLE FOR LV HRC FUSE SIZE 2 AND 3 SIDE OPERATING LEFT 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 left
Type of the driving mechanism / motor drive	No
Number of poles	3
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	500
I2t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	4 100 000 A²·s

• with closed switch / for combination switch + fuse / at 400 V / maximum	4 100 000 A²·s
• with closed switch / at 690 V / for combination switch + gG fuse / maximum	2 050 000 A²·s
• with closed switch / at 690 V / for combination switch + aM fuse / maximum	2 050 000 A²·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 A²·s
• of the aM fuse / at 690 V / maximum permissible	7 000 000 A²·s
Mechanical service life (switching cycles) / typical	6 000
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

Dissipation

Power loss [W]	
• with conventional rated thermal current / per pole	50 W
• with conventional rated thermal current / per device	150 W
• with conventional rated thermal current / without fuse / per pole	50 W
• with conventional rated thermal current / without fuse / per device	150 W
• of the fuse / per fuse / maximum	60 W
• maximum	330 W
Operating current	

• at AC-21 A / at 400 V / maximum	800 A
• at AC-21 A / at 500 V / maximum	800 A
• at AC-21 A / at 690 V / maximum	800 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	800 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	800 A
• at DC-23 A / at 440 V / rated value / maximum	800 A
• at DC-23 A / at 220 V / rated value / maximum	800 A
• at DC-22 A / at 440 V / rated value / maximum	800 A
• at DC-22 A / at 220 V / rated value / maximum	800 A
• at DC-21 A / at 440 V / rated value / maximum	800 A
• at DC-21 A / at 220 V / maximum	800 A
Continuous current	
• rated value	800 A
• at 40 °C / rated value	800 A
• at 45 °C / rated value	700 A
• at 50 °C / rated value	670 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	800 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 / maximum permissible	65 000 A
Let-through current / with closed switch	
• 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	58 500 A
Short-time current resistance (Icw) / at 690 V AC/440 V DC / limited to 1 s / rated value	22 kA

Main circuit

Operating power / at AC-23 A	
• at 400 V / at 50/60 Hz / rated value	400 kW
• at 500 V / at 50/60 Hz / rated value	560 kW
• at 690 V / at 50/60 Hz / rated value	800 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	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 feature / sealable	Yes
Product extension	
• 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	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 current circuit	Top and bottom
Tightening torque / with screw-type terminals	
• minimum	50 N·m
• maximum	75 N·m
• Type of connectable conductor cross-sections / for copper busbar	2x (50x5 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	414 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	15 250 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	Q

General Product Approval	other
CCC, VDE	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=3KF5380-4LF11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3KF5380-4LF11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5380-4LF11

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

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