SIEMENS

Data sheet 3KF5380-0LF11

SWITCH DISCONNECTOR FUSE 800A, FRAME SIZE 5, 3-POLE FOR LV HRC FUSE SIZE 2 AND 3 FRONT 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 the front
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 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	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	
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 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 /	65 000 A
maximum permissible	
Let-through current / with closed switch	40 500 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 • at 400 V / at 50/60 Hz / rated value \$00 kW • 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 690 V Auxiliary circuit Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number of connected NC contacts / for auxiliary octacts Number o		
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Main circuit Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value		22 KA
Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value	V DO / Illittled to 13 / Tated value	
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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	Product feature / interlock	No
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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 function Yes Yes	Product extension	
 — locking capability — motor drive — fuse monitoring Product function Yes 	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 	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	395 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	15 150 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=3KF5380-0LF11

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

https://support.industry.siemens.com/cs/ww/en/ps/3KF5380-0LF11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5380-0LF11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







