



Switch disconnecter with fuse 800 A, Size 5, 3-pole for LV HRC fuse Sz. 2 and 3 Front operating mechanism center Basic unit without handle flat terminal

Model	
product brand name	SENTRON
product designation	3KF switch disconnecter with fuses
design of the product	3KF switch disconnecter with fuses
product variations	3KF SIVACON
design of the actuating element	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 disconnecter	5
size of fuse link	NH2, NH3
mechanical service life (switching cycles) / typical	6 000
electrical endurance (switching cycles)	
• at AC-23 A / at 440 V	1 500
• at AC-23 A / at 690 V	1 000
• at DC-23 A / at 440 V	500
I ² t 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
• of the fuse / at 500 V / maximum permissible	10 400 000 A ² ·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
position / of the switch operating mechanism	left
fuse system	LV HRC fuse
overvoltage category	IV
operating voltage / with current paths in series	
• with degree of pollution 2 / at DC / rated value	440 / 3
• with degree of pollution 3 / at DC / rated value	440 / 3
surge voltage resistance / rated value	12 kV
Supply voltage	
operating voltage / at AC / rated value / maximum	690 V
Protection class	
protection class IP	IP00
protection class IP	

• with closed switch / with cover or cable lug cover • on the front	IP20 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
• for rated value of the current / at AC / in hot operating state / per pole	50 W
• of the fuse / per fuse / maximum	60 W
operational current	
• at 35 °C / 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
• at AC / rated value	800 A
• at AC-21 A / at 500 V / rated value	800 A
• at AC-21 A / at 690 V / rated value	800 A
• at DC-23 A / at 440 V / rated value / note	800 A
• at DC-23 A / at 220 V / rated value / note	800 A
• at DC-22 A / at 440 V / rated value / note	800 A
• at DC-22 A / at 220 V / rated value / note	800 A
• at DC-21 A / at 440 V / rated value / note	800 A
• at DC-21 A / at 220 V / rated value	800 A
operational 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	77 400 A
let-through current / of the aM fuse / at 690 V / maximum permissible	77 400 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	62 900 A
short-time withstand current (I _{cw}) / at 690 V AC/440 V DC / limited to 1 s / rated value	22 kA
Main circuit	
operating power / at AC-23 A / at 500 V / rated value	560 kW
operational current / rated value	800 A
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
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	8
number of NO contacts / for auxiliary contacts	8
suitability for use	
• main switch	Yes
• switch disconnecter	Yes

• EMERGENCY OFF switch	Yes
• safety switch	Yes
• maintenance/repair switch	Yes
product component	
• voltage trigger	No
• undervoltage release	No
• undervoltage release with leading contact	No
product feature / sealable	Yes
product extension / auxiliary switch	Yes
product extension / optional	
• locking capability	Yes
• motor drive	No
• fuse monitoring	Yes
product function	
• fuse monitoring	No
• overvoltage protection monitoring	No
Short circuit	
short-circuit current making capacity (I _{cm}) / for switch disconnect / 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 aluminum conductor / stranded / with lug	1x (25 ... 300 mm²), 2x (25 ... 300 mm²)
type of connectable conductor cross-sections	
• for copper busbar	2x (50 x 5 mm²)
type of connectable conductor cross-sections / for copper conductor	
• stranded / with lug / according to DIN 46234	1x (25 ... 240 mm²), 2x (25 ... 240 mm²)
• stranded / with lug / according 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
fastening method	floor mounting
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	No
mounting position	any
net weight	15 150 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-50 °C
• maximum	80 °C
General Product Approval	
Declaration of Conformity	

[Confirmation](#)



[Miscellaneous](#)



Declaration of
Conformity

Marine / Shipping

other



EG-Konf.



LRS



DNV-GL

[Environmental Con-
firmations](#)

[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=3KF5380-0LF11-8AA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF5380-0LF11-8AA1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5380-0LF11-8AA1

CAX-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





