



Switch disconnecter with fuse 250 A, Size 3, 4-pole for LV HRC fuse Sz. 0 and 1 Front operating mechanism center Basic unit without handle flat terminal

Model	
product brand name	SENTRON
design of the product	3KF switch disconnecter with fuses
product variations	3KF NH
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	4
size of disconnecting link	1 and 0
size of switch disconnecter	3
size of fuse link	NH0, NH1
mechanical service life (switching cycles) / typical	10 000
electrical endurance (switching cycles)	
• at AC-23 A / at 440 V	5 000
• at AC-23 A / at 690 V	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	437 000 A ² ·s
• with closed switch / at 690 V / for combination switch + gG fuse / maximum	490 100 A ² ·s
• of the fuse / at 500 V / maximum permissible	1 500 000 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	940 000 A ² ·s
• of the aM fuse / at 690 V / maximum permissible	1 400 000 A ² ·s
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	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 / without fuse / per pole	15 W
• with conventional rated thermal current / without fuse / per device	45 W
• for rated value of the current / at AC / in hot operating state / per pole	15 W
• of the fuse / per fuse / maximum	25.5 W
operational current	
• at 35 °C / 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
• at AC / rated value	250 A
• at AC-21 A / at 500 V / rated value	250 A
• at AC-21 A / at 690 V / rated value	250 A
• at DC-23 A / at 440 V / rated value / note	250 A
• at DC-23 A / at 220 V / rated value / note	250 A
• at DC-22 A / at 440 V / rated value / note	250 A
• at DC-22 A / at 220 V / rated value / note	250 A
• at DC-21 A / at 440 V / rated value / note	250 A
• at DC-21 A / at 220 V / rated value	250 A
operational 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
• for combination switch + fuse / at 500 V / maximum permissible	28 700 A
short-time withstand current (I _{cw}) / at 690 V AC/440 V DC / limited to 1 s / rated value	8 kA
Main circuit	
operating power / at AC-23 A / at 500 V / rated value	160 kW
operational current / rated value	250 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 feature / interlock	No
• product function / phase failure monitoring	No
• product component / voltage trigger	No
• product component / undervoltage release	No
• product component / 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 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 current circuit	Top and bottom
tightening torque / with screw-type terminals	
• minimum	30 N·m
• maximum	44 N·m
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 busbar	1x (25 x 3 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)
• 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	306.7 mm
depth	188.5 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	5 350 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

[UK Declaration of
Conformity](#)



[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=3KF3425-0MF11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF3425-0MF11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF3425-0MF11

CAX-Online-Generator

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

Tender specifications

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





