



Switch disconnecter with fuse 3KF SITOR, 80 A, Size 1, 3-pole, for LV HRC fuse Sz. 000 for semiconductor protection Front operating mechanism left, basic unit without handle, box terminal without fuses

Model	
product brand name	SENTRON
product designation	3KF switch disconnecter with fuses
design of the product	3KF switch disconnecter with fuses
product variations	3KF SITOR
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	00 and 000
size of switch disconnecter	1
size of fuse link	NH000, NH00
mechanical service life (switching cycles) / typical	15 000
electrical endurance (switching cycles)	
• at AC-23 A / at 440 V	10 000
• at AC-23 A / at 690 V	6 000
• at DC-23 A / at 440 V	1 500
I ² t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	33 200 A ² ·s
• with closed switch / for combination switch + fuse / at 400 V / maximum	33 200 A ² ·s
• with closed switch / at 690 V / for combination switch + gG fuse / maximum	40 700 A ² ·s
• of the fuse / at 500 V / maximum permissible	34 000 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	55 000 A ² ·s
• of the aM fuse / at 690 V / maximum permissible	55 000 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	IP00
	IP00
Dissipation	
power loss [W]	
• with conventional rated thermal current / per pole	2.8 W
• with conventional rated thermal current / per device	8.4 W
• with conventional rated thermal current / without fuse / per pole	2.8 W
• with conventional rated thermal current / without fuse / per device	8.4 W
• for rated value of the current / at AC / in hot operating state / per pole	2.8 W
• of the fuse / per fuse / maximum	12 W
operational current	
• at 35 °C / rated value	80 A
• at 40 °C / rated value	80 A
• at 45 °C / rated value	80 A
• at 50 °C / rated value	80 A
• at 55 °C / rated value	63 A
• at 60 °C / rated value	63 A
• at 65 °C / rated value	63 A
• at 70 °C / rated value	63 A
• at AC / rated value	80 A
• at AC-21 A / at 500 V / rated value	80 A
• at AC-21 A / at 690 V / rated value	80 A
• at DC-23 A / at 440 V / rated value / note	80 A
• at DC-23 A / at 220 V / rated value / note	80 A
• at DC-22 A / at 440 V / rated value / note	80 A
• at DC-22 A / at 220 V / rated value / note	80 A
• at DC-21 A / at 440 V / rated value / note	80 A
• at DC-21 A / at 220 V / rated value	80 A
operational current / at DC / rated value	80 A
let-through current / of the fuse / at 500 V / maximum permissible	11 800 A
let-through current / of the gG fuse / at 690 V / maximum permissible	11 500 A
let-through current / of the aM fuse / at 690 V / maximum permissible	11 500 A
let-through current / with closed switch	
• at 690 V / for combination switch + aM fuse / maximum permissible	11 200 A
• at 690 V / for combination switch + gG fuse / maximum permissible	11 200 A
• for combination switch + fuse / at 400 V / maximum permissible	10 400 A
• for combination switch + fuse / at 500 V / maximum permissible	10 400 A
short-time withstand current (I _{cw}) / at 690 V AC/440 V DC / limited to 1 s / rated value	2.5 kA
Main circuit	
operating power / at AC-23 A / at 500 V / rated value	55 kW
operational current / rated value	80 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	4
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
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	No
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	3.55 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	5 N·m
• maximum	6.5 N·m
type of connectable conductor cross-sections / with flexible busbar	2x (0.8 x 9 mm ²)
type of connectable conductor cross-sections	
• for copper busbar	1x (12 x 2 mm ²)
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (1 ... 16 mm ²) / 1x (AWG 14 ... 6)
• finely stranded / with core end processing	1x (6 ... 25 mm ²) / 1x (AWG 12 ... 4)
• stranded	1x (6 ... 25 mm ²) / 1x (AWG 14 ... 4)
type of electrical connection / for main current circuit	box terminal
Mechanical Design	
height	153 mm
width	148.3 mm
depth	132.7 mm
fastening method	Floor mounting and snap-on mounting on 35 mm standard mounting rail
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	Yes
mounting position	any
net weight	1 250 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	



[Confirmation](#)



[Miscellaneous](#)



Declaration of Conformity

other



[Miscellaneous](#)

[Environmental Confirmations](#)

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=3KF1308-0LB51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF1308-0LB51>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF1308-0LB51

CAX-Online-Generator

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

Tender specifications

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





