



Switch disconnector with fuse 160 A, Size 2, 3-pole for LV HRC fuse Sz. 000 and 00 Front operating mechanism left Basic unit without handle flat terminal

Model	
product brand name	SETRON
product designation	Switching device
design of the product	3KF switch disconnector with fuses
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 disconnector	2
size of fuse link	NH000, NH00
mechanical service life (switching cycles) / typical	12 000
electrical endurance (switching cycles)	
• at AC-23 A / at 440 V	8 000
• at AC-23 A / at 690 V	5 000
• at DC-23 A / at 440 V	1 000
I2t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	150 600 A ² ·s
• with closed switch / for combination switch + fuse / at 400 V / maximum	150 600 A ² ·s
• with closed switch / at 690 V / for combination switch + gG fuse / maximum	89 640 A ² ·s
• of the fuse / at 500 V / maximum permissible	223 000 A ² ·s
• of the gG fuse / at 690 V / maximum permissible	360 000 A ² ·s
• of the aM fuse / at 690 V / maximum permissible	565 000 A ² ·s
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	440 / 3
• with degree of pollution 3 / at DC / rated value	440 / 3
surge voltage resistance / rated value	12 kV
Supply voltage	
operational current / at AC / rated value	160 A
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	7.2 W
• with conventional rated thermal current / per device	21.6 W
• with conventional rated thermal current / without fuse / per pole	7.2 W
• with conventional rated thermal current / without fuse / per device	21.6 W
• for rated value of the current / at AC / in hot operating state / per pole	7.2 W
• of the fuse / per fuse / maximum	12 W
operational current	
• at AC-21 A / at 500 V / rated value	160 A
• at AC-21 A / at 690 V / rated value	160 A
• at DC-23 A / at 440 V / rated value / note	160 A
• at DC-23 A / at 220 V / rated value / note	160 A
• at DC-22 A / at 440 V / rated value / note	160 A
• at DC-22 A / at 220 V / rated value / note	160 A
• at DC-21 A / at 440 V / rated value / note	160 A
• at DC-21 A / at 220 V / rated value	160 A
operational current / at DC / rated value	160 A
let-through current / of the fuse / at 500 V / maximum permissible	18 000 A
let-through current / of the gG fuse / at 690 V / maximum permissible	25 500 A
let-through current / of the aM fuse / at 690 V / maximum permissible	33 200 A
let-through current / with closed switch	
• at 690 V / for combination switch + aM fuse / maximum permissible	27 300 A
• at 690 V / for combination switch + gG fuse / maximum permissible	16 870 A
• for combination switch + fuse / at 400 V / maximum permissible	18 200 A
• for combination switch + fuse / at 500 V / maximum permissible	18 200 A
short-time withstand current (I _{cw}) / at 690 V AC/440 V DC / limited to 1 s / rated value	5 kA
Main circuit	
operating power / at AC-23 A / at 500 V / rated value	110 kW
operational current / rated value	160 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	6
number of NO contacts / for auxiliary contacts	6
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	7.65 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	15 N·m		
maximum	22 N·m		
type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug	1x (2.5 ... 95 mm ²), 2x (2.5 ... 50 mm ²)		
type of connectable conductor cross-sections			
for copper busbar	1x (20 x 3 mm ²)		
type of connectable conductor cross-sections / for copper conductor			
stranded / with lug / acc. to DIN 46234	1x (2.5 ... 95 mm ²), 2x (2.5 ... 50 mm ²)		
stranded / with lug / acc. to DIN 46235	1x (25 ... 70 mm ²), 2x (25 ... 50 mm ²)		
type of electrical connection / for main current circuit	flat connector		
Mechanical Design			
height	150 mm		
width	190 mm		
depth	161.5 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	2 200 g		
Environmental conditions			
ambient temperature / during operation			
minimum	-25 °C		
maximum	70 °C		
ambient temperature / during storage			
minimum	-50 °C		
maximum	80 °C		
Certificates			
reference code			
acc. to DIN EN 61346-2	Q		
acc. to IEC 81346-2	Q		
General Product Approval		Declaration of	Marine / Shipping

[Miscellaneous](#)

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=3KF2316-0LF11>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3KF2316-0LF11>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF2316-0LF11**Tender specifications**<http://www.siemens.com/specifications>



