

SWITCH DISCONNECTOR FUSE 630A, FRAME SIZE 5, 4-POLE FOR LV HRC FUSE SIZE 2 AND 3 SIDE OPERATING RIGHT BASIC UNIT WITHOUT HANDLE FLAT TERMINAL WITHOUT FUSES



Model	
Product brand name	SETRON
Product designation	Switching device
Design of the product	3KF switch disconnecter with fuses
Design of the operating mechanism	without
Design of handle	Without
Direction of actuation	from right
Type of the driving mechanism / motor drive	No
Number of poles	4
Size of disconnecting link	3 and 2
Size of switch disconnecter	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	1 000
I ² t value	
• with closed switch / for combination switch + fuse / at 500 V / maximum	4 100 000 A ² ·s

<ul style="list-style-type: none"> • with closed switch / for combination switch + fuse / at 400 V / maximum 	4 100 000 A ² ·s
<ul style="list-style-type: none"> • with closed switch / at 690 V / for combination switch + gG fuse / maximum 	2 050 000 A ² ·s
<ul style="list-style-type: none"> • with closed switch / at 690 V / for combination switch + aM fuse / maximum 	2 050 000 A ² ·s
<ul style="list-style-type: none"> • of the fuse / at 500 V / maximum permissible 	10 400 000 A ² ·s
<ul style="list-style-type: none"> • of the gG fuse / at 690 V / maximum permissible 	7 000 000 A ² ·s
<ul style="list-style-type: none"> • 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 right end
Fuse system	LV HRC fuse
Overvoltage category	IV
Operating voltage / with current paths in series	
<ul style="list-style-type: none"> • with degree of pollution 2 / at DC / rated value / Note 	440 / 3
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • with closed switch / with cover or cable lug cover 	IP20
<ul style="list-style-type: none"> • on the front 	IP00

Dissipation	
Power loss [W]	
<ul style="list-style-type: none"> • with conventional rated thermal current / per pole 	40 W
<ul style="list-style-type: none"> • with conventional rated thermal current / per device 	120 W
<ul style="list-style-type: none"> • with conventional rated thermal current / without fuse / per pole 	40 W
<ul style="list-style-type: none"> • with conventional rated thermal current / without fuse / per device 	120 W
<ul style="list-style-type: none"> • of the fuse / per fuse / maximum 	48 W
<ul style="list-style-type: none"> • maximum 	264 W
Operating current	

• at AC-21 A / at 400 V / maximum	630 A
• at AC-21 A / at 500 V / maximum	630 A
• at AC-21 A / at 690 V / maximum	630 A
• at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A
• at DC-23 A / at 440 V / rated value / maximum	630 A
• at DC-23 A / at 220 V / rated value / maximum	630 A
• at DC-22 A / at 440 V / rated value / maximum	630 A
• at DC-22 A / at 220 V / rated value / maximum	630 A
• at DC-21 A / at 440 V / rated value / maximum	630 A
• at DC-21 A / at 220 V / maximum	630 A
Continuous current	
• rated value	630 A
• at 40 °C / rated value	630 A
• at 45 °C / rated value	630 A
• at 50 °C / rated value	630 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	630 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 / maximum permissible	65 000 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

<ul style="list-style-type: none"> • for combination switch + fuse / at 500 V / maximum permissible 	58 500 A
Short-time current resistance (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	
<ul style="list-style-type: none"> • at 400 V / at 50/60 Hz / rated value 	355 kW
<ul style="list-style-type: none"> • at 500 V / at 50/60 Hz / rated value 	400 kW
<ul style="list-style-type: none"> • at 690 V / at 50/60 Hz / rated value 	630 kW
Operating voltage	
<ul style="list-style-type: none"> • at AC / at 50/60 Hz / rated value 	690 V
<ul style="list-style-type: none"> • at AC / rated value / maximum 	690 V

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
Suitability for use	
<ul style="list-style-type: none"> • Main switch 	Yes
<ul style="list-style-type: none"> • switch disconnector 	Yes
<ul style="list-style-type: none"> • EMERGENCY OFF switch 	Yes
<ul style="list-style-type: none"> • safety switch 	Yes
<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Product feature / interlock	No
Product component	
<ul style="list-style-type: none"> • Voltage trigger 	No
<ul style="list-style-type: none"> • undervoltage release 	No
<ul style="list-style-type: none"> • undervoltage release with leading contact 	No
Product feature / sealable	Yes
Product extension	
<ul style="list-style-type: none"> • Auxiliary switch 	Yes
<ul style="list-style-type: none"> • optional 	
<ul style="list-style-type: none"> — locking capability 	Yes
<ul style="list-style-type: none"> — motor drive 	No
<ul style="list-style-type: none"> — fuse monitoring 	Yes
Product function	
<ul style="list-style-type: none"> • fuse monitoring 	No

Short circuit

Short-circuit current making capacity (I _{cm}) / for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum	44 kA
Conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> • at 500 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value 	<p>100 kA</p> <p>80 kA</p>

Connections

Arrangement of electrical connectors / for main current circuit	Top and bottom
Tightening torque / with screw-type terminals	
<ul style="list-style-type: none"> • minimum • maximum 	<p>50 N·m</p> <p>75 N·m</p>
<ul style="list-style-type: none"> • Type of connectable conductor cross-sections / for copper busbar • Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug • Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 • Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	<p>1x (50x10 mm)</p> <p>1x (25 ... 300 mm²), 2x (25 ... 300 mm²)</p> <p>1x (25 ... 240 mm²), 2x (25 ... 240 mm²)</p> <p>1x (25 ... 300 mm²), 2x (25 ... 300 mm²)</p>
Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit 	flat connector

Mechanical Design

Height	270 mm
Width	511 mm
Depth	262 mm
Mounting position	any
Mounting type	floor mounting
Mounting type	
<ul style="list-style-type: none"> • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting 	<p>No</p> <p>No</p> <p>No</p>
Net weight	19 050 g

Environmental conditions

Degree of pollution	3
Ambient temperature	
<ul style="list-style-type: none"> • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 	<p>-25 °C</p> <p>70 °C</p> <p>-50 °C</p> <p>80 °C</p>

Certificates

Equipment marking / acc. to DIN EN 61346-2

Q

General Product Approval

other



CCC



VDE

[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=3KF5463-4RF11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KF5463-4RF11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KF5463-4RF11

CAX-Online-Generator

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

Tender specifications

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



