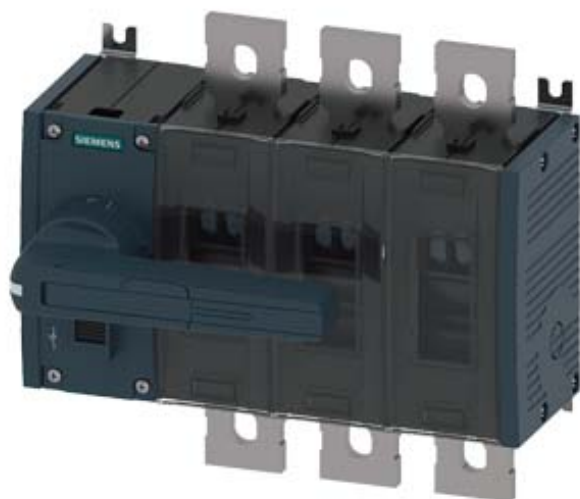


SWITCH-DISCONNECTOR 630A, FRAME SIZE 4, 3-POLE FRONT
OPERATING LEFT COMPLETE ASSEMBLY DIRECT OPERATING
MECHANISM GREY FLAT TERMINAL



Model	
product brandname	SENTRON
Display version / for switch position indicator manual operation	ON-OFF-TEST
Type of the driving mechanism / motor drive	No
General technical data	
Number of poles	3
Type of device	fixed mounting
Size of switch disconnector	4
Electrical endurance (switching cycles)	
at AC-23 A / at 690 V / at 50/60 Hz	1 000
at DC-23 A / at 440 V	1 000
I2t value / with closed switch / for combination switch + fuse / at 500 V / maximum	3 687 500 A²·s
I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	3 687 500 A²·s
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 450 000 A²·s

• I2t value / of the fuse / at 500 V / maximum permissible	5 400 005 A ² ·s
• I2t value / of the gG fuse / at 690 V / maximum permissible	3 760 005 A ² ·s
circuit-breaker / Design	3KD4
Mechanical service life (switching cycles) / typical	8 000
Position / of the switch operating mechanism	at the left end
Overvoltage category	IV

Voltage

Operating voltage / with current paths in series	
• 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	
• 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	22 W

Electricity

• Operating current / at AC-21 A / at 400 V / maximum	630 A
• Operating current / at AC-21 A / at 500 V / maximum	630 A
• Operating current / at AC-21 A / at 690 V / maximum	630 A
• Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	630 A
• Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	630 A

• Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	630 A
• Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	500 A
• Operating current / at DC-23 A / at 440 V / rated value / maximum	630 / 3
• Operating current / at DC-23 A / at 220 V / rated value / maximum	630 / 2
• Operating current / at DC-22 A / at 440 V / rated value / maximum	630 / 3
• Operating current / at DC-22 A / at 220 V / rated value / maximum	630 / 2
• Operating current / at DC-21 A / at 440 V / rated value / maximum	630 / 3
• Operating current / at DC-21 A / at 220 V / maximum	630 / 2
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	630 A
• at 70 °C / rated value	630 A
Continuous current / at DC / rated value	630 A
Let-through current / of the fuse / at 500 V / maximum permissible	65 521 A
Let-through current / of the gG fuse / at 690 V / maximum permissible	54 005 A
Let-through current / with closed switch	
• at 690 V / for combination switch + gG fuse / maximum permissible	54 500 A
• for combination switch + fuse / at 400 V / maximum permissible	61 600 A
• for combination switch + fuse / at 500 V / maximum permissible	61 600 A
Short-time current resistance (I_{cw})	
• limited to 1 s / rated value	30 kA
• at 690 V AC/440 V DC / limited to 1 s / rated value	30 kA
Main circuit	
Operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	355 kW

• at AC-23 A / at 500 V / at 50/60 Hz / rated value • at AC-23 A / at 690 V / at 50/60 Hz / rated value	400 kW 500 kW
Operating voltage	
• at AC / at 50/60 Hz / rated value	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	
Suitability for use	
• Main switch • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch	Yes Yes No Yes Yes
Product details	
Product feature / interlock	Yes
Product component	
• Trip indicator • Voltage trigger • undervoltage release • undervoltage release with leading contact	No No No No
Product extension	
• Auxiliary switch • optional — motor drive — Voltage trigger	Yes No 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 • Short-circuit current making capacity (I_{cm}) / for switch disconnecter / without fuse link / rated value / minimum	63 kA 63 kA
Conditional short-circuit current	
• with line-side fuse protection / at 500 V / by gG fuse / rated value	100 kA
Connections	

Type of electrical connection	
• for main current circuit	flat connector

Mechanical Design

Height	235 mm
Width	260 mm
Depth	166.5 mm
Mounting position	any
Mounting type	screw fixing
Mounting type	
• front mounting with 4-hole attachment	No
• front mounting with central attachment	No
• rail mounting	No
Net weight	7 700 g

Environmental conditions

Degree of pollution	3
Ambient temperature	
• during operation / minimum	-25 °C
• during operation / maximum	70 °C
• during storage / minimum	-50 °C
• during storage / maximum	80 °C

Certificates

Equipment marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

General Product Approval	Declaration of Conformity
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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=3KD4632-0QE10-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD4632-0QE10-0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4632-0QE10-0

CAX-Online-Generator

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

Tender specifications

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

