

SWITCH-DISCONNECTOR 500A, FRAME SIZE 4,
3-POLE FRONT OPERATING CENTER BASIC UNIT
WITHOUT HANDLE FLAT TERMINAL



Similar to image

General technical details:		
product brand name		SENTRON
Product designation		Switching device
Design of the product		3KD Switch Disconnectors
Size of switch disconnector		4
Number of poles		3
Continuous current		
• rated value	A	500
• at 40 °C / rated value	A	500
• at 45 °C / rated value	A	500
• at 50 °C / rated value	A	500
• at 55 °C / rated value	A	500
• at 60 °C / rated value	A	500
• at 65 °C / rated value	A	500
• at 70 °C / rated value	A	500
• at DC / rated value	A	500
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	500

<ul style="list-style-type: none"> • at 500 V / maximum 	A	500
<ul style="list-style-type: none"> • at 690 V / maximum 	A	500
<ul style="list-style-type: none"> • at AC-22 A <ul style="list-style-type: none"> • at 400 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum 	A	500
	A	500
	A	500
<ul style="list-style-type: none"> • at AC-23 A <ul style="list-style-type: none"> • at 400 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum 	A	500
	A	500
	A	500
<ul style="list-style-type: none"> • at DC-21 A <ul style="list-style-type: none"> • at 220 V / maximum / note • at 440 V / rated value / maximum / note 		500 / 2
		500 / 3
<ul style="list-style-type: none"> • at DC-22 A <ul style="list-style-type: none"> • at 220 V / rated value / maximum / note • at 440 V / rated value / maximum / note 		500 / 2
		500 / 3
<ul style="list-style-type: none"> • at DC-23 A <ul style="list-style-type: none"> • at 220 V / rated value / maximum / note • at 440 V / rated value / maximum / note 		500 / 2
		500 / 3
Operational voltage		
<ul style="list-style-type: none"> • at 50/60 Hz / for AC / rated value 	V	690
<ul style="list-style-type: none"> • with 3 current paths in series / with DC / rated value 	V	440
Insulation voltage / rated value	V	1,000
Impulse voltage resistance / rated value	kV	12
Overvoltage class		IV
Operating power / at AC-23 A		
<ul style="list-style-type: none"> • at 400 V / at 50/60 Hz / rated value 	kW	280
<ul style="list-style-type: none"> • at 500 V / at 50/60 Hz / rated value 	kW	355
<ul style="list-style-type: none"> • at 690 V / at 50/60 Hz / rated value 	kW	500
I²t value / with closed switch		
<ul style="list-style-type: none"> • for combination switch + fuse <ul style="list-style-type: none"> • at 400 V / maximum • at 500 V / maximum 	A ² ·s	3,687,500
	A ² ·s	3,687,500
<ul style="list-style-type: none"> • at 690 V <ul style="list-style-type: none"> • for combination switch +gG fuse / maximum 	A ² ·s	4,450,000
Let-through current / with closed switch		
<ul style="list-style-type: none"> • for combination switch + fuse <ul style="list-style-type: none"> • at 400 V / maximum permissible • at 500 V / maximum permissible 	A	61,600
	A	61,600
<ul style="list-style-type: none"> • at 690 V 		

• with combination switch +aM fuse / maximum permissible	A	54,500
Short-time current resistance (I_{cw}) / limited to 1 s / rated value	kA	30
Making capacity short-circuit current (I_{cm}) / for switch disconnector / without fuse link / rated value / minimum	kA	63
Conditional short-circuit current / with line-side fuse protection		
• at 500 V / by gG fuse / rated value	kA	100
• at 690 V / by gG fuse / rated value	kA	65
Active power loss / with conventional rated thermal current / per pole	W	15
Product equipment / interlock		No
Type of the driving mechanism / motor drive		No
Product extension / optional / motor drive		No
Design of the electrical connection / for main current circuit		flat connector
Type of connectable conductor cross-sections		
• for copper conductor / stranded / with lug		
• according to DIN 46234		1x (25 ... 240 mm²), 2x (25 ... 240 mm²)
• according to DIN 46235		1x (25 ... 240 mm²), 2x (25 ... 240 mm²)
Number of connected NC contacts / for auxiliary contacts		0
Number of connected NO contacts / for auxiliary contacts		0
Number of connected changeover contacts / for auxiliary contacts		0
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts		8
Number of NO contacts / for auxiliary contacts		8
Number of changeover contacts / for auxiliary contacts		0
Acceptability for application / switch disconnector		Yes
Acceptability for application		
• emergency stop switch		No
• main switch		Yes
• safety cut-out switch		Yes
• maintenance/repair switch		Yes
Design of the operating mechanism		without
Mounting type		floor mounting
Mounting type / rail mounting		No
Mounting type / front mounting with 4-hole attachment		No
Mounting type / front mounting with central attachment		No
Type from device		fixed mounting
mounting position		any
Position / of switch operating mechanism		after the first pole
Design of handle		without

Width	mm	260
Height	mm	235
Depth	mm	110
Protection class IP <ul style="list-style-type: none"> • on the front • with closed switch / with cover or cable lug cover 		IP00 IP00 IP20
Ambient temperature <ul style="list-style-type: none"> • during operating • during storage 	°C °C	-25 ... +70 -50 ... +80
Degree of pollution		3
Mechanical operating cycles as operating time / typical		8,000
Electrical endurance (switching cycles) <ul style="list-style-type: none"> • at AC-23 A / at 690 V / at 50/60 Hz • at DC-23 A <ul style="list-style-type: none"> • at 220 V • at 440 V 		1,000 1,000 1,000
Design of display <ul style="list-style-type: none"> • for switch position indicator door-coupling rotary operating mechanism 		ON-OFF
Net weight	g	7,300
Reference code / according to DIN EN 61346-2		Q
Item designation / according to DIN EN 81346-2		Q

Certificates/approvals:

General Product Approval

Declaration of Conformity



Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD4430-0QE20-0>

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

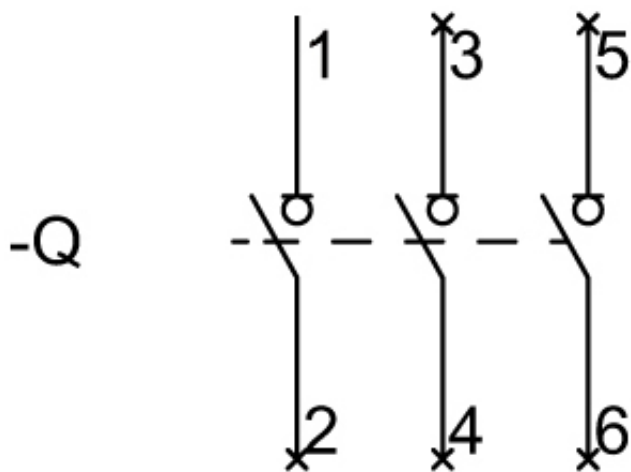
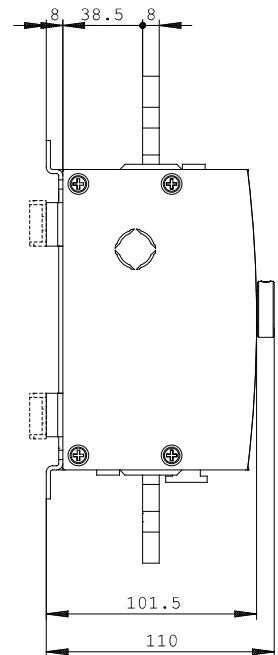
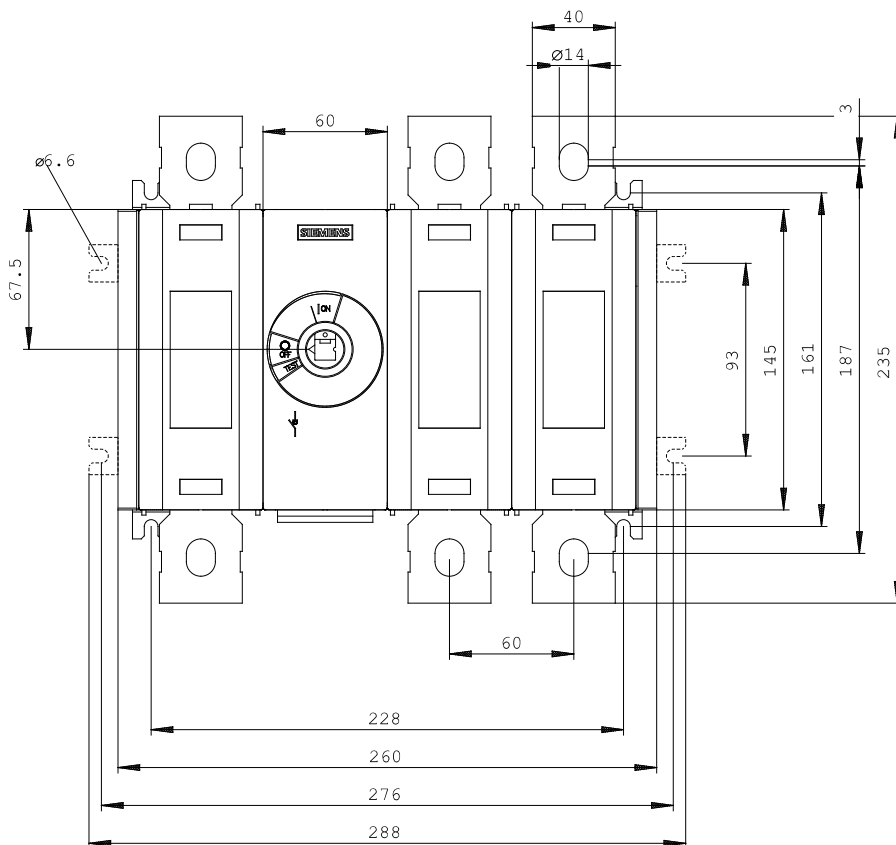
<http://support.automation.siemens.com/WW/view/en/3KD4430-0QE20-0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4430-0QE20-0

CAX-Online-Generator

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



last change:

Apr 21, 2014