



SWITCH-DISCONNECTOR 160A, FRAME SIZE 2,
3-POLE FRONT OPERATING CENTER BASIC UNIT
WITHOUT HANDLE FLAT TERMINAL INCL. PHASE
BARRIERS

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		2
Number of poles		3
Continuous current		
• rated value	A	160
• at 40 °C / rated value	A	160
• at 45 °C / rated value	A	160
• at 50 °C / rated value	A	160
• at 55 °C / rated value	A	160
• at 60 °C / rated value	A	160
• at 65 °C / rated value	A	160
• at 70 °C / rated value	A	160
• at DC / rated value	A	160
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	160

• at 500 V / maximum	A	160
• at 690 V / maximum	A	160
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	160
• at 500 V / at 50/60 Hz / rated value / maximum	A	160
• at 690 V / at 50/60 Hz / rated value / maximum	A	160
• at AC-23 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	160
• at 500 V / at 50/60 Hz / rated value / maximum	A	160
• at 690 V / at 50/60 Hz / rated value / maximum	A	125
• at DC-21 A		
• at 220 V / maximum / note		160 / 2
• at 440 V / rated value / maximum / note		160 / 3
• at DC-22 A		
• at 220 V / rated value / maximum / note		160 / 2
• at 440 V / rated value / maximum / note		160 / 3
• at DC-23 A		
• at 220 V / rated value / maximum / note		160 / 2
• at 440 V / rated value / maximum / note		160 / 3
Operational voltage		
• at 50/60 Hz / for AC / rated value	V	690
• 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	8
Overvoltage class		III
Operating power / at AC-23 A		
• at 400 V / at 50/60 Hz / rated value	kW	90
• at 500 V / at 50/60 Hz / rated value	kW	110
• at 690 V / at 50/60 Hz / rated value	kW	110
I²t value / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum	A ² ·s	135,600
• at 500 V / maximum	A ² ·s	135,600
• at 690 V		
• for combination switch +gG fuse / maximum	A ² ·s	178,300
• for combination switch +aM fuse / maximum	A ² ·s	201,200
Let-through current / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum permissible	A	17,900
• at 500 V / maximum permissible	A	17,900

• at 690 V • with combination switch +gG fuse / maximum permissible • with combination switch +aM fuse / maximum permissible	A	17,600
	A	18,700
Short-time current resistance (I_{cw}) / limited to 1 s / rated value	kA	4
Making capacity short-circuit current (I_{cm}) / for switch disconnecter / without fuse link / rated value / minimum	kA	12
Conditional short-circuit current / with line-side fuse protection		
• at 500 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value	kA	100
	kA	65
Active power loss / with conventional rated thermal current / per pole	W	7
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 • according to DIN 46235 • for copper busbar		1x (2.5 ... 95 mm ²), 2x (25 ... 50 mm ²) 1x (25 ... 70 mm ²), 2x (25 ... 50 mm ²) 1x (20x3 mm ²)
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		0
Number of NO contacts / for auxiliary contacts		0
Number of changeover contacts / for auxiliary contacts		4
Acceptability for application / switch disconnecter		Yes
Acceptability for application		
• emergency stop switch • main switch • safety cut-out switch • maintenance/repair switch		No Yes Yes Yes
Design of the operating mechanism		without
Mounting type		Floor mounting and snap-on mounting to 35 mm standard mounting rail
Mounting type / rail mounting		Yes
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	121
Height	mm	168
Depth	mm	68
Protection class IP • on the front • with closed switch / with cover or cable lug cover		IP00 IP00 IP20
Ambient temperature • during operating • during storage	°C °C	-25 ... +70 -50 ... +80
Degree of pollution		3
Mechanical operating cycles as operating time / typical		15,000
Electrical endurance (switching cycles) • at AC-23 A / at 690 V / at 50/60 Hz • at DC-23 A • at 220 V • at 440 V		1,500 1,000 1,000
Design of display • for switch position indicator door-coupling rotary operating mechanism		ON-OFF
Net weight	g	830
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)

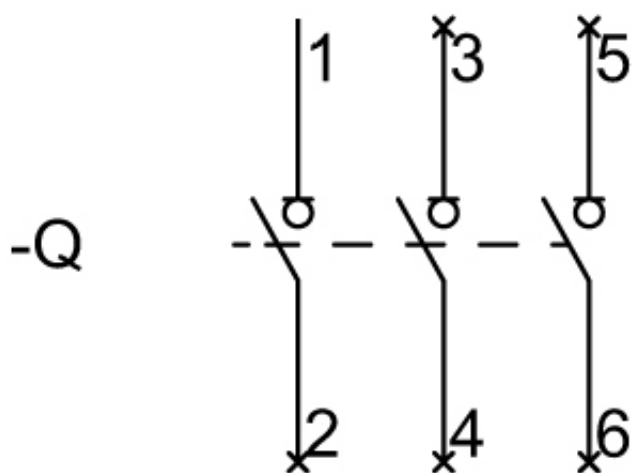
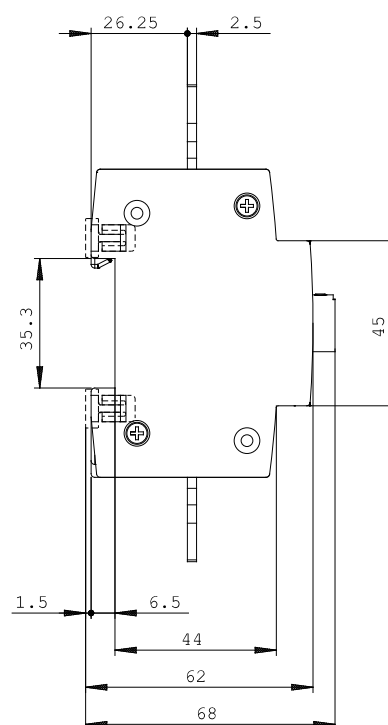
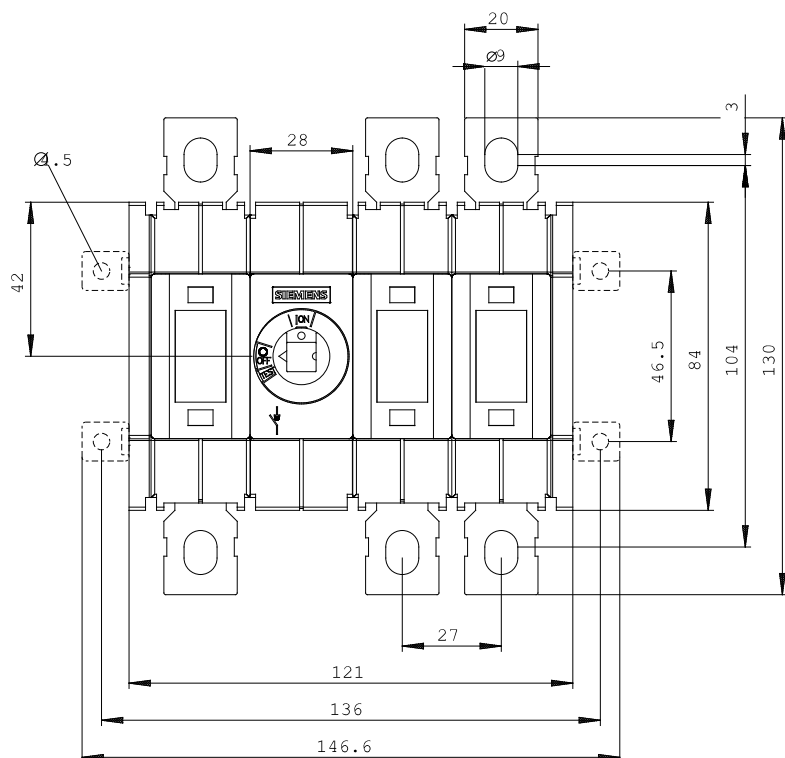
<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD3430-ONE20-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD3430-ONE20-0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3430-ONE20-0



last change:

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