SIEMENS

Product data sheet 3KD4030-0PE10-0

SWITCH-DISCONNECTOR 315A, FRAME SIZE 3, 3-POLE FRONT OPERATING LEFT BASIC UNIT WITHOUT HANDLE FLAT TERMINAL



Similar to image

product brand name		SENTRON
		Switching device
Product designation		
Design of the product		3KD Switch Disconnectors
Size of switch disconnector		3
Number of poles		3
Continuous current		
• rated value	Α	315
• at 40 °C / rated value	А	315
• at 45 °C / rated value	А	315
• at 50 °C / rated value	А	315
• at 55 °C / rated value	А	315
• at 60 °C / rated value	А	315
• at 65 °C / rated value	А	315
• at 70 °C / rated value	А	315
• at DC / rated value	А	315
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	315

• at 690 V / maximum • at AC-22 A • at 400 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at 500 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 • at 1890 V / at 50/60 Hz / rated value / maximum • at 220 V / maximum / note • at 400 V / rated value / maximum / note • at 400 V / rated value / maximum / note • at 400 V / rated value / maximum / note • at 400 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 220 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 50/60 Hz / for AC / rated value • with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in series / with DC / rated value with 3 current paths in	• at 500 V / maximum	Α	315
** at 400 V / at 50/60 Hz / rated value / maximum A 315 ** at 500 V / at 50/60 Hz / rated value / maximum A 315 ** at 690 V / at 50/60 Hz / rated value / maximum A 315 ** at 400 V / at 50/60 Hz / rated value / maximum A 315 ** at 400 V / at 50/60 Hz / rated value / maximum A 315 ** at 500 V / at 50/60 Hz / rated value / maximum A 315 ** at 500 V / at 50/60 Hz / rated value / maximum A 315 ** at 220 V / rated value / maximum A 315 ** at 220 V / maximum / note 315 / 2 ** at 440 V / rated value / maximum / note 315 / 3 ** at DC-22 A ** at 220 V / rated value / maximum / note 315 / 2 ** at 440 V / rated value / maximum / note 315 / 3 ** at CC-23 A ** at 220 V / rated value / maximum / note 315 / 3 ** at CC-24 A ** at 220 V / rated value / maximum / note 315 / 3 ** at CC-25 A ** at 220 V / rated value / maximum / note 315 / 2 ** at 440 V / rated value / maximum / note 315 / 2 ** at 440 V / rated value / raximum / note 315 / 2 ** at 440 V / rated value / raximum / note 315 / 3 **Operational voltage ** at 50/60 Hz / for AC / rated value V 440 Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value V 1,000 Impulse voltage resistance / rated value KV 12 Overvoltage class **Operating power / at AC-23 A ** at 400 V / at 50/60 Hz / rated value KW 220 ** at 50/00 / at 50/60 Hz / rated value KW 220 ** at 600 V / at 50/60 Hz / rated value KW 280 Izt value / with closed switch **or combination switch + fuse ** at 400 V / maximum A A2-s 1,165,000	• at 690 V / maximum	Α	315
* at 500 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 400 V / at 50/60 Hz / rated value / maximum * at 400 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 4 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated value * viith 3 current paths in series / with DC / rated va	• at AC-22 A		
• at 690 V / at 50/60 Hz / rated value / maximum • at AC-23 A • at 400 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at 500 V / at 50/60 Hz / rated value / maximum • at DC-21 A • at 220 V / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 420 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 50/60 Hz / rated value / maximum / note • at 50/60 Hz / rated value V 440 Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60	• at 400 V / at 50/60 Hz / rated value / maximum	Α	315
• at AC-23 A • 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 • at 690 V / at 50/60 Hz / rated value / maximum • at 690 V / at 50/60 Hz / rated value / maximum • at DC-21 A • at 220 V / maximum / note • at 440 V / rated value / maximum / note • at 220 V / rated value / maximum / note • at 220 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 440 V / rated value / maximum / note • at 50/60 Hz / for AC / rated value • with 3 current paths in series / with DC / rated value • with 3 current paths in series / with DC / rated value Insulation voltage / rated value V	• at 500 V / at 50/60 Hz / rated value / maximum	Α	315
* 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 * at 690 V / at 50/60 Hz / rated value / maximum * at DC-21 A * at 220 V / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * with 3 current paths in series / with DC / rated value * with 3 current paths in series / with DC / rated value * v	• at 690 V / at 50/60 Hz / rated value / maximum	Α	315
* at 500 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at 690 V / at 50/60 Hz / rated value / maximum * at DC-21 A * at 220 V / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * with 3 current paths in series / with DC / rated value * with 3 current paths in series / with DC / rated value * with 3 current paths in series / with DC / rated value * V 440 Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value V 1,000 V 12 V 20 V 20	• at AC-23 A		
* at 690 V / at 50/60 Hz / rated value / maximum * at DC-21 A * at 220 V / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * with 3 current paths in series / with DC / rated value V 440 Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value V 1,000 Operating power / at AC-23 A * at 400 V / at 50/60 Hz / rated value * at 500 V / at 50/60 Hz / rated value * at 690 V / at 50/60 Hz / rated value * at 600 V / maximum	• at 400 V / at 50/60 Hz / rated value / maximum	Α	315
* at DC-21 A * at 220 V / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * at 50/60 Hz / for AC / rated value * with 3 current paths in series / with DC / rated value V	• at 500 V / at 50/60 Hz / rated value / maximum	Α	315
* at 220 V / maximum / note * at 440 V / rated value / maximum / note * at DC-22 A * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * of 440 V / rated value / maximum / note * of 50/60 Hz / for AC / rated value * of 50/60 Hz / for AC / rated value * of 440 * Insulation voltage / rated value * v	• at 690 V / at 50/60 Hz / rated value / maximum	Α	315
 at 440 V / rated value / maximum / note at DC-22 A at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note at 220 V / rated value / maximum / note at DC-23 A at 220 V / rated value / maximum / note at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note 315 / 2 at 440 V / rated value / maximum / note 315 / 3 Operational voltage at 50/60 Hz / for AC / rated value 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 Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 Izt value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000 	• at DC-21 A		
* at DC-22 A * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 220 V / rated value / maximum / note * at 440 V / rated value / maximum / note * at 50/60 Hz / for AC / rated value * at 50/60 Hz / for AC / rated value * with 3 current paths in series / with DC / rated value * v Insulation voltage / rated value v Overvoltage resistance / rated value v Overvoltage class IV Overvoltage class IV Operating power / at AC-23 A * at 400 V / at 50/60 Hz / rated value * at 500 V / at 50/60 Hz / rated value * at 690 V / at 50/60 Hz / rated value * at 690 V / at 50/60 Hz / rated value * at 690 V / at 50/60 Hz / rated value * at 400 V / maximum A²-s 1,165,000	• at 220 V / maximum / note		315 / 2
 at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note at DC-23 A at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note at 440 V / rated value / maximum / note 315 / 2 at 440 V / rated value / maximum / note 315 / 3 Operational voltage at 50/60 Hz / for AC / rated value with 3 current paths in series / with DC / rated value v 440 Insulation voltage / rated value kV 12 Overvoltage class IV Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 I2t value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000 	• at 440 V / rated value / maximum / note		315 / 3
 at 440 V / rated value / maximum / note at DC-23 A at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note at 440 V / rated value / maximum / note 315 / 2 315 / 3 Operational voltage at 50/60 Hz / for AC / rated value 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 at 400 V / at 50/60 Hz / rated value at 500 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 I2t value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000 	• at DC-22 A		
• at DC-23 A • at 220 V / rated value / maximum / note • at 440 V / rated value / maximum / note 315 / 2 315 / 3 Operational voltage • at 50/60 Hz / for AC / rated value • with 3 current paths in series / with DC / rated value Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value V 12 Overvoltage class IV Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / maximum A²-s 1,165,000	• at 220 V / rated value / maximum / note		315 / 2
 at 220 V / rated value / maximum / note at 440 V / rated value / maximum / note 315 / 2 at 440 V / rated value / maximum / note 315 / 3 Operational voltage at 50/60 Hz / for AC / rated value 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 Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value kW 160 at 500 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 Izt value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000 	• at 440 V / rated value / maximum / note		315 / 3
at 440 V / rated value / maximum / note Operational voltage at 50/60 Hz / for AC / rated value with 3 current paths in series / with DC / rated value Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value V 12 Overvoltage class IV Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value kW 160 at 500 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 Izt value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000	• at DC-23 A		
Operational voltage • at 50/60 Hz / for AC / rated value • with 3 current paths in series / with DC / rated value Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value kV 12 Overvoltage class IV Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 400 V / maximum A²-s 1,165,000	• at 220 V / rated value / maximum / note		315 / 2
at 50/60 Hz / for AC / rated value with 3 current paths in series / with DC / rated value Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value kV 12 Overvoltage class IV Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value kW 160 at 500 V / at 50/60 Hz / rated value kW 220 at 690 V / at 50/60 Hz / rated value kW 280 Izt value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000	at 440 V / rated value / maximum / note		315 / 3
with 3 current paths in series / with DC / rated value Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value kV 12 Overvoltage class IV Operating power / at AC-23 A at 400 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value by the closed switch at 400 V / maximum A2-s 1,165,000	Operational voltage		
Insulation voltage / rated value V 1,000 Impulse voltage resistance / rated value RV 12 Overvoltage class IV Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value Izt value / with closed switch • for combination switch + fuse • at 400 V / maximum A2-s 1,165,000	• at 50/60 Hz / for AC / rated value	V	690
Impulse voltage resistance / rated value V	with 3 current paths in series / with DC / rated value	V	440
Overvoltage class Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value • at 500 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value • at 690 V / at 50/60 Hz / rated value W 220	Insulation voltage / rated value	V	1,000
Operating power / at AC-23 A • at 400 V / at 50/60 Hz / rated value	Impulse voltage resistance / rated value	kV	12
• at 400 V / at 50/60 Hz / rated value	Overvoltage class		IV
 at 500 V / at 50/60 Hz / rated value at 690 V / at 50/60 Hz / rated value kW 280 12t value / with closed switch for combination switch + fuse at 400 V / maximum A²-s 1,165,000 	Operating power / at AC-23 A		
at 690 V / at 50/60 Hz / rated value KW 280	• at 400 V / at 50/60 Hz / rated value	kW	160
I2t value / with closed switch • for combination switch + fuse • at 400 V / maximum A²-s 1,165,000	• at 500 V / at 50/60 Hz / rated value	kW	220
• for combination switch + fuse • at 400 V / maximum A²-s 1,165,000	• at 690 V / at 50/60 Hz / rated value	kW	280
• at 400 V / maximum A²-s 1,165,000	l2t value / with closed switch		
	• for combination switch + fuse		
1500 1/4	• at 400 V / maximum	A²⋅s	1,165,000
• at 500 V / maximum A ² ·s 1,165,000	• at 500 V / maximum	A²∙s	1,165,000
• at 690 V	• at 690 V		
• for combination switch +gG fuse / maximum A²-s 1,157,500	• for combination switch +gG fuse / maximum	A²-s	1,157,500
• for combination switch +aM fuse / maximum A²-s 1,267,900	for combination switch +aM fuse / maximum	A²-s	1,267,900
Let-through current / with closed switch	Let-through current / with closed switch		
• for combination switch + fuse	• for combination switch + fuse		
• at 400 V / maximum permissible A 35,200	• at 400 V / maximum permissible	А	35,200
• at 500 V / maximum permissible A 35,200	• at 500 V / maximum permissible	Α	35,200

• at 690 V		
• with combination switch +gG fuse / maximum permissible	Α	27,300
• with combination switch +aM fuse / maximum permissible	Α	27,960
Short-time current resistance (lcw) / limited to 1 s / rated value	kA	13
Making capacity short-circuit current (lcm) / for switch disconnector / without fuse link / rated value / minimum	kA	26
Conditional short-circuit current / with line-side fuse protection		
• at 500 V / by gG fuse / rated value	kA	65
at 690 V / by gG fuse / rated value	kA	35
Active power loss / with conventional rated thermal current / per pole	W	10
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 (6 240mm²), 2x (6 150mm²)
according to DIN 46235		1x (16 185mm²), 2x (16150MM²)
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		6
Number of NO contacts / for auxiliary contacts		6
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		at the left end
Design of handle		without
Width	mm	190
Height	mm	164
Depth	mm	93.5
Protection class IP		IP00
• on the front		IP00
 with closed switch / with cover or cable lug cover 		IP20
Ambient temperature		
during operating	°C	-25 +70
during storage	°C	-50 +80
Degree of pollution		3
Mechanical operating cycles as operating time / typical		10,000
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz		1,000
• at DC-23 A		
• at 220 V		1,000
• at 440 V		1,000
Design of display		
 for switch position indicator door-coupling rotary operating mechanism 		ON-OFF
Net weight	g	2,800
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/3KD4030-0PE10-0

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

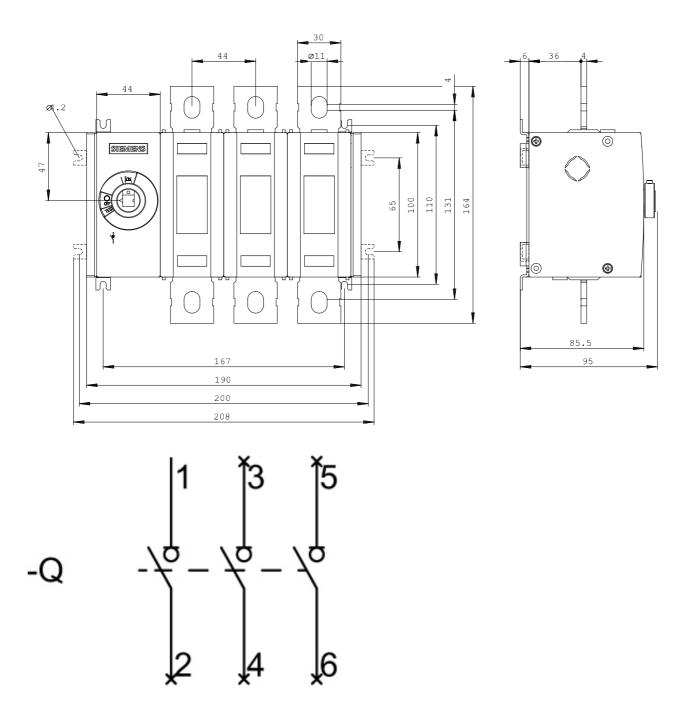
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3KD4030-0PE10-0/all}}$

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4030-0PE10-0

CAx-Online-Generator

http://www.siemens.com/cax



last change: Apr 21, 2014