# SIEMENS

# **Product data sheet**

## 3KD3030-0NE20-0



SWITCH-DISCONNECTOR 100A, 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	А	100		
• at 40 °C / rated value	А	100		
• at 45 °C / rated value	А	100		
• at 50 °C / rated value	А	100		
• at 55 °C / rated value	А	100		
• at 60 °C / rated value	А	100		
• at 65 °C / rated value	А	100		
• at 70 °C / rated value	А	100		
• at DC / rated value	А	100		
Operating current				
• at AC-21 A				
• at 400 V / maximum	А	100		

• at 500 V / maximum	А	100
• at 690 V / maximum	А	100
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	А	100
• at 500 V / at 50/60 Hz / rated value / maximum	А	100
• at 690 V / at 50/60 Hz / rated value / maximum	А	100
• at AC-23 A		
• at 400 V / at 50/60 Hz / rated value / maximum	А	100
• at 500 V / at 50/60 Hz / rated value / maximum	А	100
• at 690 V / at 50/60 Hz / rated value / maximum	А	100
• at DC-21 A		
• at 220 V / maximum / note		100 / 2
• at 440 V / rated value / maximum / note		100 / 3
• at DC-22 A		
• at 220 V / rated value / maximum / note		100 / 2
• at 440 V / rated value / maximum / note		100 / 3
• at DC-23 A		
• at 220 V / rated value / maximum / note		100 / 2
• at 440 V / rated value / maximum / note		100 / 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	55
• at 500 V / at 50/60 Hz / rated value	kW	55
• at 690 V / at 50/60 Hz / rated value	kW	90
I2t value / with closed switch	-	
<ul> <li>for combination switch + fuse</li> </ul>		
• at 400 V / maximum	A²·s	135,600
• at 500 V / maximum	A²-s	135,600
• at 690 V		
<ul> <li>for combination switch +gG fuse / maximum</li> </ul>	A²-s	178,300
<ul> <li>for combination switch +aM fuse / maximum</li> </ul>	A²-s	201,200
Let-through current / with closed switch		
<ul> <li>for combination switch + fuse</li> </ul>		
<ul> <li>for combination switch + fuse</li> <li>at 400 V / maximum permissible</li> </ul>	A	17,900

• at 690 V		
<ul> <li>with combination switch +gG fuse / maximum permissible</li> </ul>	А	17,600
with combination switch +aM fuse / maximum permissible	A	18,700
Short-time current resistance (Icw) / limited to 1 s / rated value	kA	4
Making capacity short-circuit current (Icm) / for switch disconnector / 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	kA	100
• at 690 V / by gG fuse / rated value	kA	65
Active power loss / with conventional rated thermal current / per pole	W	3
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		
<ul> <li>for copper conductor / stranded / with lug</li> </ul>		
according to DIN 46234		1x (2.5 95 mm²), 2x (25 50 mm²)
according to DIN 46235		1x (25 70 mm²), 2x (25 50 mm²)
• for copper busbar		1x (20x3 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		0
Number of NO contacts / for auxiliary contacts		0
Number of changeover contacts / for auxiliary contacts		4
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 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

monung positionanyPosition / of switch operating mechanismIdeafter the first poleDesign of handlemm121Widthmm188Depthmm68Potection class IPImmIP00• on the frontImmIP00• with closed switch / with cover or cable lug coverImmImm• during operatingc25 +70• during operating°C3• during storageImm3Degree of pollutionimm1,500• at AC-23 A / at 690 V / at 50/60 Hz1,500• at 420 V1,500• at 440 VImm1,500Posing of displayImm3• for switch position indicator door-coupling rotary operatingImm• for switch position indicator door-coupling rotar			
Design of handlewithoutWidthmm121Heightmm168Depthmm68Protection class IPIPOIPO0• on the frontIPO0IPO0• with closed switch / with cover or cable lug coverIPOIPO0• with closed switch / with cover or cable lug coverIPOIPO0• during operating°C-25 +70• during operating cycles as operating time / typicalSIPO0Electrical endurance (switching cycles)15,000ISO0• at AC-23 A/ at 690 V/ at 50/60 Hz1,500ISO0• at A2C V1,500ISO0ISO0• at A2C V1,500ISO0• at A2O VISO0ISO0• at A40 VISO0ISO0Design of displayISO0ISO0• for switch position indicator door-coupling rotary operating mechanismISO0Net weightg830Reference code / according to DIN EN 61346-2ISOIsoISOISOIsoISOIsoISOIsoISOIsoISOIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISONIsoISON	mounting position		any
VidthImage: Margin and the second	Position / of switch operating mechanism	_	after the first pole
HeightIntermIntermHeightmm168Depthmm68Protection class IPIP00• on the frontIP00• with closed switch / with cover or cable lug coverIP20Ambient temperatureIP20• during operating°C• during storage°CDegree of pollutionICBechanical operating cycles as operating time / typical5,000• at AC-23 A / at 690 V / at 50/60 HzIS00• at 202 V1,500• at 400 V1,500• at 400 VIS00• for switch position indicator door-coupling rotary operating mechanismIS00Peignt of displayIS00• for switch position indicator door-coupling rotary operating mechanismIS00Net weightgBit weightGReference code / according to DIN EN 61346-2I<	Design of handle		without
Depthmm68Protection class IPIP00• on the frontIP00• with closed switch / with cover or cable lug coverIP20Ambient temperatureIP20• during operating°C• during storage°CDegree of pollutionSBechanical operating cycles as operating time / typicalI5,000Electrical endurance (switching cycles)IS00• at 2C0 V1,500• at 2C0 V1,500• at 4d0 VIS00Design of displayIS00• for switch position indicator door-coupling rotary operating mechanismGStatementIS00Reference code / according to DIN EN 61346-2GImage: Image:	Width	mm	121
Protection class IPIP00• on the frontIP00• with closed switch / with cover or cable lug coverIP20Ambient temperatureIP2• during operating°C• during storage°CDegree of pollutionSIEctrical endurance (switching cycles)IS00• at AC-23 A / at 690 V / at 50/60 Hz1,500• at 420 V1,500• at 440 VIS00Design of displayIS00• for switch position indicator door-coupling rotary operating mechanismIgNet weightIgReference code / according to DIN EN 61346-2QQQ	Height	mm	168
• on the frontIP00• with closed switch / with cover or cable lug coverIP20Ambient temperatureIP20• during operating°C• during storage°CDegree of pollutionSMechanical operating cycles as operating time / typicalIS,000• at AC-23 A / at 690 V / at 50/60 HzIS,000• at 220 VI,500• at 440 VI,500Design of displayI,500• for switch position indicator door-coupling rotary operating mechanismISNet weightg830Reference code / according to DIN EN 61346-2GQQ	Depth	mm	68
• with closed switch / with cover or cable lug coverIP20Ambient temperatureIP20• during operating°C• during storage°CDegree of pollutionGCMechanical operating cycles as operating time / typicalIS.000Electrical endurance (switching cycles)IS.000• at AC-23 A / at 690 V / at 50/60 HzIS.000	Protection class IP		IP00
Ambient temperatureImage: Constraint of the second sec	• on the front		IP00
• during operating° C-25 +70• during storage-50 +80• Degree of pollution3Mechanical operating cycles as operating time / typical15,000Electrical endurance (switching cycles)	• with closed switch / with cover or cable lug cover		IP20
• during storage°C-50 +80• begree of pollution3Mechanical operating cycles as operating time / typical15,000Electrical endurance (switching cycles)-41 AC-23 A / at 690 V / at 50/60 Hz• at AC-23 A / at 690 V / at 50/60 Hz-50 +80• at DC-23 A-1,500• at 220 V-1,500• at 440 V1,500Design of display-1,500• for switch position indicator door-coupling rotary operating mechanismGNet weightg830Reference code / according to DIN EN 61346-2GQ	Ambient temperature		
Degree of pollution3Mechanical operating cycles as operating time / typical15,000Electrical endurance (switching cycles)1,500• at AC-23 A / at 690 V / at 50/60 Hz1,500• at DC-23 A1,500• at 220 V1,500• at 440 V1,500Design of display6• for switch position indicator door-coupling rotary operating mechanism0N-OFFNet weightg830Reference code / according to DIN EN 61346-2G	during operating	°C	-25 +70
Mechanical operating cycles as operating time / typical15,000Electrical endurance (switching cycles) • at AC-23 A / at 690 V / at 50/60 Hz • at DC-23 A • at 220 V • at 440 V1,500Design of display • for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg330Reference code / according to DIN EN 61346-2Q	during storage	°C	-50 +80
Electrical endurance (switching cycles)Image: space of the	Degree of pollution		3
• at AC-23 A / at 690 V / at 50/60 Hz1,500• at DC-23 A1,500• at 220 V1,500• at 440 V1,500Design of display1,500• for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg830Reference code / according to DIN EN 61346-2Q	Mechanical operating cycles as operating time / typical		15,000
• at DC-23 AImage: A problem of the type of t	Electrical endurance (switching cycles)		
• at 220 V1,500• at 440 V1,500Design of display1,500• for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg830Reference code / according to DIN EN 61346-2Q	• at AC-23 A / at 690 V / at 50/60 Hz		1,500
• at 440 V1,500Design of display • for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg830Reference code / according to DIN EN 61346-2Q	• at DC-23 A		
Design of display • for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg830Reference code / according to DIN EN 61346-2Q	• at 220 V		1,500
• for switch position indicator door-coupling rotary operating mechanismON-OFFNet weightg830Reference code / according to DIN EN 61346-2Q	• at 440 V		1,500
mechanism     Image: mechanism       Net weight     g     830       Reference code / according to DIN EN 61346-2     Q     Q	Design of display		
Reference code / according to DIN EN 61346-2     Q			ON-OFF
	Net weight	g	830
Item designation / according to DIN EN 81346-2 Q	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/3KD3030-0NE20-0

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

http://support.automation.siemens.com/WW/view/en/3KD3030-0NE20-0/all

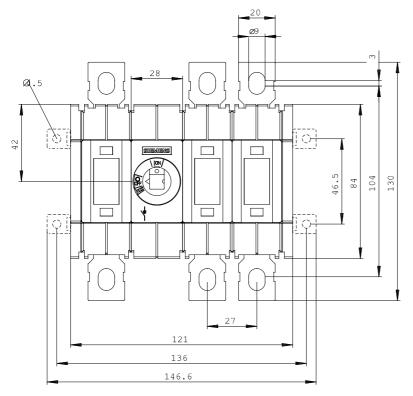
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KD3030-0NE20-0

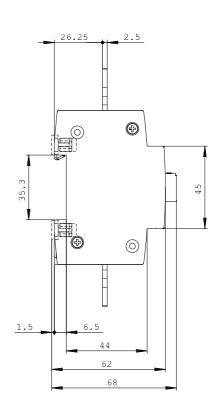
#### CAx-Online-Generator

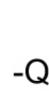
http://www.siemens.com/cax

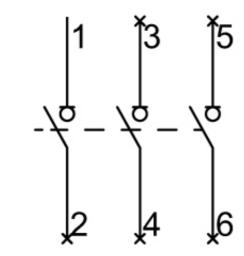
### **Tender specifications**

Datanorm GAEB81 GAEB83 RTF TXT









last change:

Apr 21, 2014