SIEMENS

Data sheet 3KD2830-0NE10-0

SWITCH-DISCONNECTOR 80A, FRAME SIZE 2, 3-POLE FRONT OPERATING LEFT BASIC UNIT WITHOUT HANDLE FLAT TERMINAL INCL. PHASE BARRIERS

Model	
product brandname	SENTRON
Product designation	Switching device
Design of the product	3KD switch disconnectors
Display version / for switch position indicator door- coupling rotary operating mechanism	ON-OFF
Design of the operating mechanism	without
Design of handle	without
Type of the driving mechanism / motor drive	No

General technical data		
Number of poles		3
Type of device		fixed mounting
Size of switch disconnector		2
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz		1 500
• at DC-23 A / at 440 V		1 500
 I2t value / with closed switch / for combination switch + fuse / at 500 V / maximum 	A²·s	135 600
 I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum 	A²·s	135 600
 I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum 	A²·s	178 300
 I2t value / with closed switch / at 690 V / for combination switch + aM fuse / maximum 	A²·s	201 200
 I2t value / of the fuse / at 500 V / maximum permissible 	A²·s	223 005
 I2t value / of the gG fuse / at 690 V / maximum permissible 	A²·s	226 005
circuit-breaker / Design		3KD2
Mechanical service life (switching cycles) / typical		15 000
Position / of the switch operating mechanism		at the left end
Overvoltage category		III

Operating voltage / with current paths in series

Voltage

with degree of pollution 2 / at DC / rated value / Note		440 / 3
 with degree of pollution 3 / at DC / rated value / Note 		440 / 3
Insulation voltage		
• rated value	V	1 000
Surge voltage resistance / rated value	kV	8
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 	W	2
μοιε		
Electricity		
 Operating current / at AC-21 A / at 400 V / maximum 	Α	80
 Operating current / at AC-21 A / at 500 V / maximum 	Α	80
 Operating current / at AC-21 A / at 690 V / maximum 	Α	80
 Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum 	Α	80
 Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum 	А	80
 Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum 	Α	80
 Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum 	Α	80
 Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum 	А	80
 Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum 	Α	80
 Operating current / at DC-23 A / at 440 V / rated value / maximum 		80 / 3
 Operating current / at DC-23 A / at 220 V / rated value / maximum 		80 / 2

 Operating current / at DC-22 A / at 440 V / rated value / maximum 		80 / 3
 Operating current / at DC-22 A / at 220 V / rated value / maximum 		80 / 2
 Operating current / at DC-21 A / at 440 V / rated value / maximum 		80 / 3
 Operating current / at DC-21 A / at 220 V / maximum / Note 		80 / 2
Continuous current		
• rated value	Α	80
• at 40 °C / rated value	Α	80
• at 45 °C / rated value	Α	80
• at 50 °C / rated value	Α	80
• at 55 °C / rated value	Α	80
• at 60 °C / rated value	Α	80
• at 65 °C / rated value	Α	80
• at 70 °C / rated value	Α	80
Continuous current / at DC / rated value	Α	80
Let-through current / of the fuse / at 500 V / maximum permissible	А	18 005
Let-through current / of the gG fuse / at 690 V /	Α	16 005
maximum permissible		
Let-through current / with closed switch		
 at 690 V / for combination switch + aM fuse / maximum permissible 	Α	17 600
 at 690 V / for combination switch + gG fuse / maximum permissible 	Α	18 700
 for combination switch + fuse / at 400 V / maximum permissible 	Α	17 900
 for combination switch + fuse / at 500 V / maximum permissible 	Α	17 900
Short-time current resistance (lcw)		
limited to 1 s / rated value	kA	4
• at 690 V AC/440 V DC / limited to 1 s / rated value	kA	4
Main circuit		
Operating power	1307	0.7
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	kW	37
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	kW	55
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	kW	75
Operating voltage		000
• at AC / at 50/60 Hz / rated value	V	690
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
Number of CO contacts / for auxiliary contacts		4
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		
Main switch		Yes
 switch disconnector 		Yes
 EMERGENCY OFF switch 		No
• safety switch		Yes
• maintenance/repair switch		Yes
Product details		
Product feature / interlock		No
Product component		
Trip indicator		No
 Voltage trigger 		No
 undervoltage release 		No
 undervoltage release with leading contact 		No
Product extension		
Auxiliary switch		Yes
• optional		
— motor drive		No
— Voltage trigger		No
Short circuit		
 Short-circuit current making capacity (lcm) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum 	kA	12
 Short-circuit current making capacity (lcm) / 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
Connections		
Type of connectable conductor cross-sections / for copper busbar		1x (20x3 mm²)

 Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug 	1x(1070mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234 	1x (2.5 95mm²), 2x (25 50mm²)
 Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235 	1x (25 70mm²), 2x (25 50mm²)
Type of electrical connection • for main current circuit	flat connector

Mechanical Design		
Height	mm	168
Width	mm	121
Depth	mm	68
Mounting position		any
Mounting type		Floor mounting and snap-on mounting to 35 mm standard mounting rail
Mounting type		
 front mounting with 4-hole attachment 		No
 front mounting with central attachment 		No
rail mounting		Yes
Net weight	g	830

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

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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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/3KD2830-0NE10-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3KD2830-0NE10-0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2830-0NE10-0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv

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