SIEMENS

Data sheet 3KD3430-2NE20-0



Switch disconnector 160 A, Size 2, 3-pole Front operating mechanism center Basic unit without handle Box terminal

Model	
product brand name	SENTRON
product designation	3KD switch disconnector
design of the product	Switch
display version for switch position indicator door-coupling rotary operating mechanism	ON-OFF
design of the actuating element	Without handle
type of the driving mechanism	Front operating mechanism
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
operational current at 35 °C rated value	160 A
mechanical service life (operating cycles) typical	15 000
electrical endurance (operating cycles)	
● at AC-23 A at 690 V	1 500
● at DC-23 A at 440 V	1 000
I2t value	
● with closed switch at 1000 V for combination switch +gG/aM SITOR fuse maximum	19 815 A²·s
● of the fuse at 500 V maximum permissible	223 005 A²·s
● of the gG fuse at 690 V maximum permissible	226 005 A²·s
● of the gG/aM SITOR fuse at 1000 V maximum permissible	48 000 A²·s
● of the molded case circuit breaker at 415 V maximum permissible	560 000 A²·s
position of the switch operating mechanism	after the first pole
overvoltage in percent relative to the operating voltage at AC at 400, 500, 690 V at 50/60 Hz	10 %
overvoltage category	III
degree of pollution	3
Voltage	
operating voltage with current paths in series	
● with degree of pollution 2 at DC rated value	440 V / 3
● with degree of pollution 3 at DC rated value	440 V / 3
insulation voltage	
● rated value	1 000 V
surge voltage resistance rated value	8 kV
operational current rated value	160 A

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• **operational current**	
— **at 35 °C rated value**	160 A
— **at 40 °C rated value**	160 A
— **at 45 °C rated value**	160 A
— **at 50 °C rated value**	160 A
— **at 55 °C rated value**	160 A
— **at 60 °C rated value**	160 A
— **at 65 °C rated value**	160 A
— **at 70 °C rated value**	160 A
• **operational current**	
— at AC-23 A at 690 V rated value	125 A
— at AC-23 A at 500 V rated value	160 A
— at AC-23 A at 400 V rated value	160 A
— at AC-22 A at 1000 V maximum	160 A
— at AC-22 A at 690 V rated value	160 A
— at AC-22 A at 500 V rated value	160 A
— at AC-22 A at 400 V rated value	160 A
— at AC-20 A at 1000 V maximum	160 A
— at AC-21 A at 500 V rated value	160 A
— at AC-21 A at 690 V rated value	160 A
— at DC-20 A at 1000 V maximum	160 A / 1
— at DC-23 A at 440 V rated value note	160 A / 3
— at DC-23 A at 220 V rated value note	160 A / 2
— at DC-22 A at 440 V rated value note	160 A / 3
— at DC-22 A at 220 V rated value note	160 A / 2
— at DC-21 A at 440 V rated value note	160 A / 3
— at DC-21 A at 220 V rated value	160 A / 2
continuous current of upstream fuse at 500 V and 690 V rated value	250 A
continuous current of upstream fuse at 1000 V rated value	250 A
continuous current of upstream molded case circuit breaker at 415 V rated value	160 A
let-through current of the fuse at 500 V maximum permissible	25 700 A
let-through current of the gG fuse at 690 V maximum permissible	29 500 A
Supply voltage	
operating voltage at AC rated value	1 000 V
Protection class	
protection class IP	IP20
protection class IP	
• with closed switch with cover or cable lug cover	IP20
• on the front	IP20
Dissipation	
power loss [W]	
• **with conventional rated thermal current per pole**	4.6 W
• **with conventional rated thermal current per device**	13.8 W
• **for rated value of the current at AC in hot operating state per pole**	4.6 W
Main circuit	
operating power	
• at AC-23 A at 500 V rated value	110 kW
operational current rated value	160 A
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

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number of NO contacts for auxiliary contacts	0
Suitability	
suitability for use main switch	Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use according to IEC 62626-1 safety switch	No
suitability for use 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
product extension optional motor drive	No
product extension optional voltage trigger	No
Short circuit	
short-time withstand current (Icw) at 1000 V AC/440 V DC limited to 1 s rated value	4 kA
short-circuit current making capacity (Icm) for switch disconnector	
● **at 400 V AC without fuse link rated value minimum**	30 kA
● **at 1000 V AC without fuse link rated value minimum**	12 kA
● **at DC 440 V without fuse link rated value minimum**	12 kA
● **without fuse link rated value minimum**	12 kA
conditional short-circuit current with line-side fuse protection	
● **at 415 V by molded case circuit breaker rated value**	65 kA
● **at 500 V by gG fuse rated value**	100 kA
● **at 690 V by gG fuse rated value**	100 kA
Connections	
type of connectable conductor cross-sections with flexible busbar	3x (0.8x14 mm²)
type of connectable conductor cross-sections	
● for copper busbar	'1 x (3 x 14 mm²)
type of connectable conductor cross-sections for copper conductor	
● solid	1x (2.5 ... 16 mm²)
● finely stranded with core end processing	1x (2.5 ... 70 mm²)
● stranded	1x (10 ... 70 mm²)
type of electrical connection for main current circuit	box terminal
Mechanical Design	
height	126 mm
width	121 mm
depth	68 mm
fastening method	Screw fixing and standard rail mounting 35 mm
fastening method	
● 4-hole front mounting	No
● front mounting with central attachment	No
● rail mounting	Yes
mounting position	any
Net Weight	1.128 kg
Environmental conditions	
ambient temperature during operation	
● minimum	-25 °C
● maximum	70 °C
ambient temperature during storage	
● minimum	-50 °C
● maximum	80 °C

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Certificates

reference code according to IEC 81346-2	Q

Approvals Certificates

Environment		General Product Approval			
Environmental Confirmations	Environmental Confirmations			Miscellaneous	

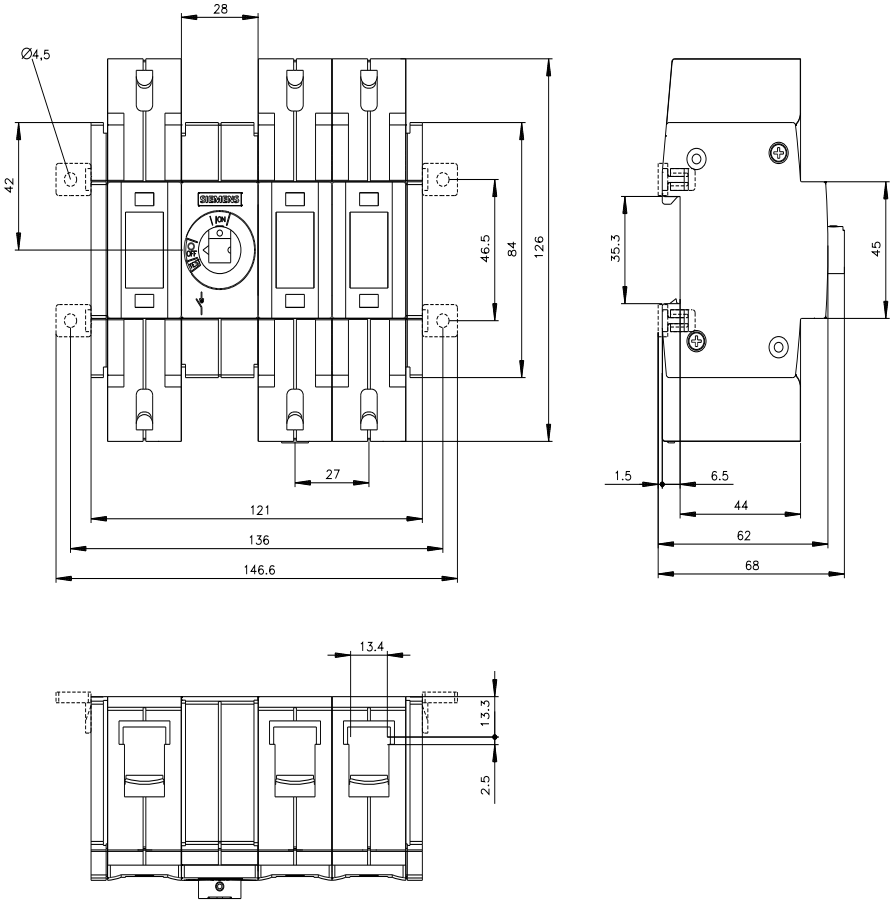
General Product Approval			Test Certificates	Maritime application	
Confirmation			Type Test Certificates/Test Report		

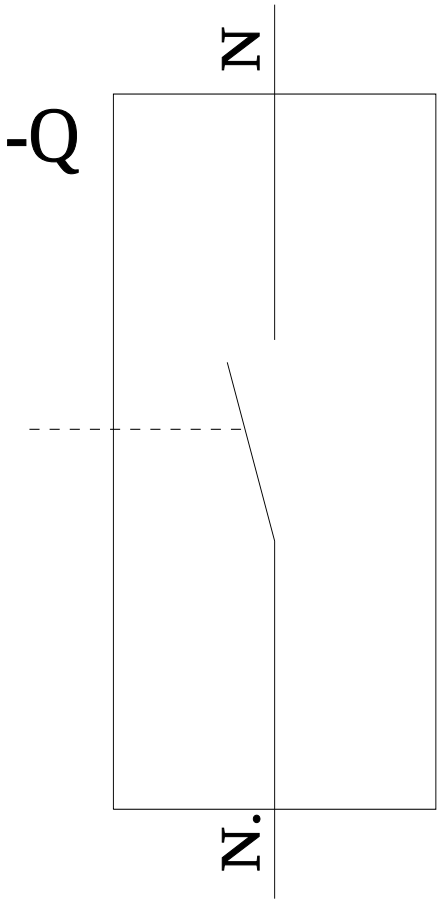
other		
Confirmation		Miscellaneous

Further information

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information for data generation and storage
https://support.industry.siemens.com/cs/ww/en/view/109995012
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3KD3430-2NE20-0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3KD3430-2NE20-0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3430-2NE20-0
CAx-Online-Generator
https://www.siemens.com/cax
Tender specifications
https://www.siemens.com/specifications
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https://curves.simaris.siemens.com/curves/3KD3430-2NE20-0

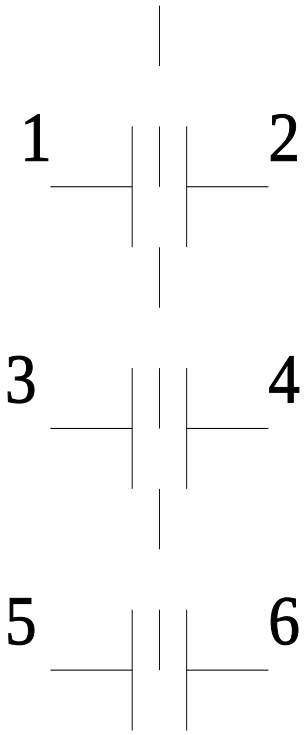
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