

SWITCH-DISCONNECTOR 160A, FRAME SIZE 2, 3-
POLE FRONT OPERATING LEFT COMPLETE
ASSEMBLY DIRECT OPERATING MECHANISM GREY
FLAT TERMINAL INCL. PHASE BARRIERS



Model		
product brandname		SETRON
Product designation		Switching device
Design of the product		3KD switch disconnectors
Display version / for switch position indicator manual operation		ON-OFF-TEST
Design of the operating mechanism		manual operating mechanism
Design of handle		Direct operating mechanism, gray
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		1 000
I²t value / with closed switch / for combination switch + fuse / at 500 V / maximum	A ² ·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		3KD3
Mechanical service life (switching cycles) / typical		15 000
Position / of the switch operating mechanism		at the left end
Overvoltage category		III

Voltage

Operating voltage / with current paths in series		
• 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	7

Electricity

• Operating current / at AC-21 A / at 400 V / maximum	A	160
• Operating current / at AC-21 A / at 500 V / maximum	A	160
• Operating current / at AC-21 A / at 690 V / maximum	A	160

• Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	A	160
• Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	A	160
• Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	A	160
• Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	A	160
• Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	A	160
• Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	A	125
• Operating current / at DC-23 A / at 440 V / rated value / maximum		160 / 3
• Operating current / at DC-23 A / at 220 V / rated value / maximum		160 / 2
• Operating current / at DC-22 A / at 440 V / rated value / maximum		160 / 3
• Operating current / at DC-22 A / at 220 V / rated value / maximum		160 / 2
• Operating current / at DC-21 A / at 440 V / rated value / maximum		160 / 3
• Operating current / at DC-21 A / at 220 V / maximum / Note		160 / 2
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
Continuous current / at DC / rated value	A	160
Let-through current / of the fuse / at 500 V / maximum permissible	A	18 005
Let-through current / of the gG fuse / at 690 V / maximum permissible	A	16 005
Let-through current / with closed switch		
• at 690 V / for combination switch + aM fuse / maximum permissible	A	17 600
• at 690 V / for combination switch + gG fuse / maximum permissible	A	18 700
• for combination switch + fuse / at 400 V / maximum permissible	A	17 900

• for combination switch + fuse / at 500 V / maximum permissible	A	17 900
Short-time current resistance (I_{cw})		
• 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		
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	kW	90
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	kW	110
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	kW	110
Operating voltage		
• 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 disconnecter		Yes
• EMERGENCY OFF switch		No
• safety switch		Yes
• maintenance/repair switch		Yes

Product details

Product feature / interlock		Yes
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 (I_{cm}) / for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum
- Short-circuit current making capacity (I_{cm}) / for switch disconnecter / without fuse link / rated value / minimum

kA

12

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
- Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug
- Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234
- Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235

1x (20x3 mm²)

1x(1070mm²)

1x (2.5 ... 95mm²), 2x (25 ... 50mm²)

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

97

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
- front mounting with central attachment
- rail mounting

No

No

Yes

Net weight

g

850

Environmental conditions

Degree of pollution

3

Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum

°C

-25

°C

70

°C

-50

- during storage / maximum

°C 80

Certificates

Equipment marking

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

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General Product Approval

Declaration of Conformity



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EG-Konf.

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/3KD3432-0NE10-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD3432-0NE10-0/all>

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

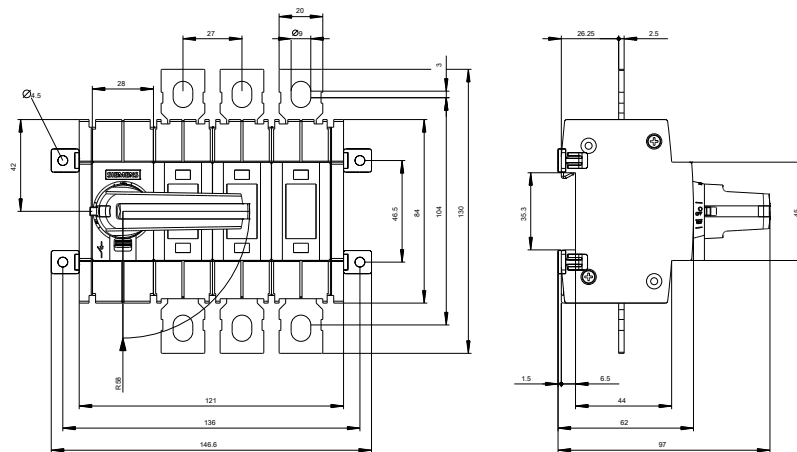
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3432-0NE10-0

CAX-Online-Generator

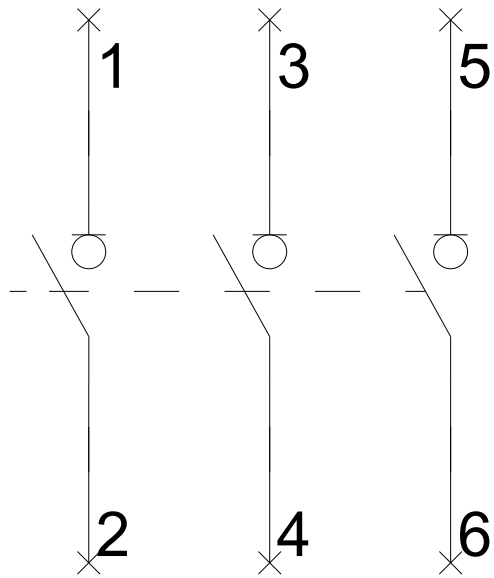
<http://www.siemens.com/cax>

Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>



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