

SWITCH-DISCONNECTOR 250A, FRAME SIZE 3, 3-
POLE SIDE OPERATING RIGHT BASIC UNIT
WITHOUT HANDLE FLAT TERMINAL



Model		
product brandname		SETRON
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		3
Electrical endurance (switching cycles)		
at AC-23 A / at 690 V / at 50/60 Hz		1 000
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	426 500

• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	A ² ·s	426 500
• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	A ² ·s	348 000
• I2t value / of the fuse / at 500 V / maximum permissible	A ² ·s	780 005
• I2t value / of the gG fuse / at 690 V / maximum permissible	A ² ·s	525 005
circuit-breaker / Design		3KD3
Mechanical service life (switching cycles) / typical		10 000
Position / of the switch operating mechanism		at the right end
Overvoltage category		IV

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	12
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	250
• Operating current / at AC-21 A / at 500 V / maximum	A	250
• Operating current / at AC-21 A / at 690 V / maximum	A	250
• Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	A	250

• Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	A	250
• Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	A	250
• Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	A	250
• Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	A	250
• Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	A	250
• Operating current / at DC-23 A / at 440 V / rated value / maximum		250 / 3
• Operating current / at DC-23 A / at 220 V / rated value / maximum		250 / 2
• Operating current / at DC-22 A / at 440 V / rated value / maximum		250 / 3
• Operating current / at DC-22 A / at 220 V / rated value / maximum		250 / 2
• Operating current / at DC-21 A / at 440 V / rated value / maximum		250 / 3
• Operating current / at DC-21 A / at 220 V / maximum / Note		250 / 2
Continuous current		
• rated value	A	250
• at 40 °C / rated value	A	250
• at 45 °C / rated value	A	250
• at 50 °C / rated value	A	250
• at 55 °C / rated value	A	250
• at 60 °C / rated value	A	250
• at 65 °C / rated value	A	250
• at 70 °C / rated value	A	250
Continuous current / at DC / rated value	A	250
Let-through current / of the fuse / at 500 V / maximum permissible	A	24 872
Let-through current / of the gG fuse / at 690 V / maximum permissible	A	25 005
Let-through current / with closed switch		
• at 690 V / for combination switch + gG fuse / maximum permissible	A	22 700
• for combination switch + fuse / at 400 V / maximum permissible	A	25 100
• for combination switch + fuse / at 500 V / maximum permissible	A	25 100
Short-time current resistance (Icw)		

- limited to 1 s / rated value
- at 690 V AC/440 V DC / limited to 1 s / rated value

kA	13
kA	13

Main circuit

Operating power

- at AC-23 A / at 400 V / at 50/60 Hz / rated value
- at AC-23 A / at 500 V / at 50/60 Hz / rated value
- at AC-23 A / at 690 V / at 50/60 Hz / rated value

kW	132
kW	160
kW	220

Operating voltage

- at AC / at 50/60 Hz / rated value

V	690
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Auxiliary circuit

Number of connected NC contacts / for auxiliary contacts

	0
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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

	0
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Number of NC contacts / for auxiliary contacts

	6
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Number of NO contacts / for auxiliary contacts

	6
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Suitability

Suitability for use

- Main switch
- switch disconnecter
- EMERGENCY OFF switch
- safety switch
- maintenance/repair switch

Yes
Yes
No
Yes
Yes

Product details

Product feature / interlock

No

Product component

- Trip indicator
- Voltage trigger
- undervoltage release
- undervoltage release with leading contact

No
No
No
No

Product extension

- Auxiliary switch
- optional
 - motor drive
 - Voltage trigger

Yes
No
No

Short circuit

• Short-circuit current making capacity (I_{cm}) / for switch disconnector / at 690 V AC/440 V DC / without fuse link / rated value / minimum	kA	26
• Short-circuit current making capacity (I_{cm}) / 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	100

Connections

• Type of connectable conductor cross-sections / for copper busbar		1x (30x10mm ²)
• Type of connectable conductor cross-sections / for aluminum conductor / stranded / with lug		1x (25 ... 240mm ²), 2x (25 ... 120mm ²)
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46234		1x (6 ... 240mm ²), 2x (6 ... 150mm ²)
• Type of connectable conductor cross-sections / for copper conductor / stranded / with lug / acc. to DIN 46235		1x (16 ... 185mm ²), 2x (16 ... 150mm ²)
Type of electrical connection • for main current circuit		flat connector

Mechanical Design

Height	mm	164
Width	mm	198.5
Depth	mm	95
Mounting position		any
Mounting type		floor mounting
Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • rail mounting		No No No
Net weight	g	2 800

Environmental conditions

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

Certificates

Equipment marking		
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- 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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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/3KD3834-0PE40-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD3834-0PE40-0/all>

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

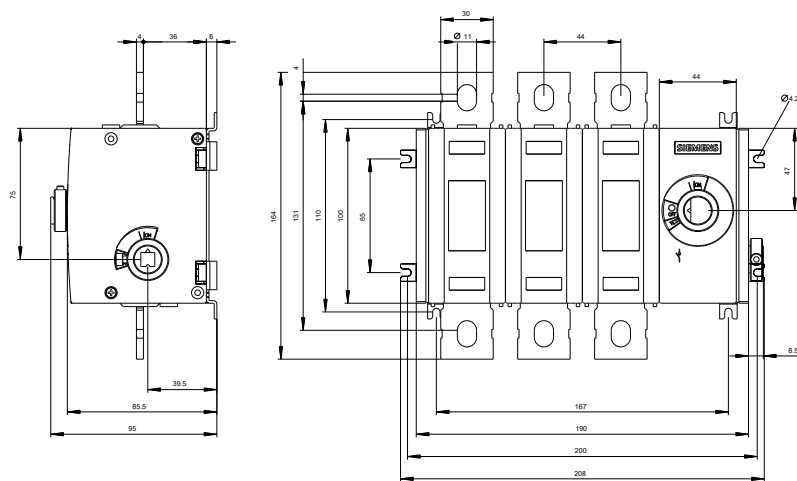
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3834-0PE40-0

CAX-Online-Generator

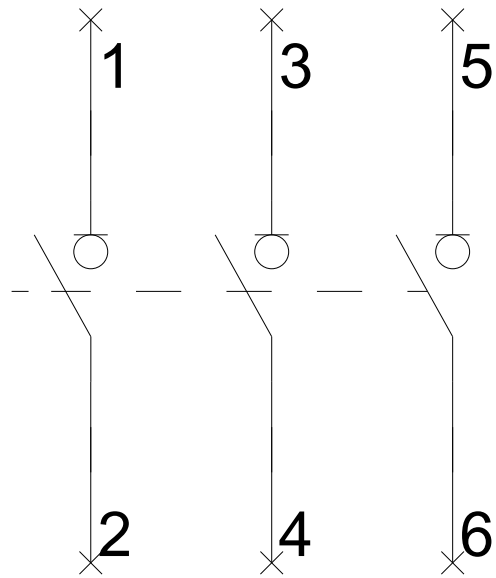
<http://www.siemens.com/cax>

Tender specifications

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



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last modified:

10/14/2016