

SWITCH-DISCONNECTOR 250A, FRAME SIZE 3, 4-
POLE FRONT OPERATING LEFT BASIC UNIT
WITHOUT HANDLE FLAT TERMINAL

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		4
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	A²·s	426 500
• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	A²·s	426 500
• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	A²·s	348 000
• I2t value / of the fuse / at 500 V / maximum permissible	A²·s	780 005
• I2t value / of the gG fuse / at 690 V / maximum permissible	A²·s	525 005
circuit-breaker / Design		3KD3
Mechanical service life (switching cycles) / typical		10 000
Position / of the switch operating mechanism		at the left 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
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	kA	13
• at 690 V AC/440 V DC / limited to 1 s / rated value	kA	13

Main circuit

Operating power		
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	kW	132
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	kW	160
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	kW	220
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		0
Number of NC contacts / for auxiliary contacts		6
Number of NO contacts / for auxiliary contacts		6

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		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 (I _{cm}) / for switch disconnecter / at 690 V AC/440 V DC / without fuse link / rated value / minimum	kA	26
• Short-circuit current making capacity (I _{cm}) / for switch disconnecter / 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	234
Depth	mm	93.5
Mounting position		any
Mounting type		floor mounting
Mounting type		
• front mounting with 4-hole attachment		No

• front mounting with central attachment		No
• rail mounting		No
Net weight	g	3 400

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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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/3KD3840-0PE10-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD3840-0PE10-0/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD3840-0PE10-0

CAX-Online-Generator

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

Tender specifications

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

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