



SWITCH-DISCONNECTOR 63A, FRAME SIZE 1, 4-
POLE FRONT OPERATING LEFT COMPLETE
ASSEMBLY DIRECT OPERATING MECHANISM GREY
BOX TERMINAL

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		4
Type of device		fixed mounting
Size of switch disconnector		1
Electrical endurance (switching cycles)		
at AC-23 A / at 690 V / at 50/60 Hz		6 000
at DC-23 A / at 440 V		1 500
I²t value / with closed switch / for combination switch + fuse / at 500 V / maximum	A ² ·s	13 300

• I2t value / with closed switch / for combination switch + fuse / at 400 V / maximum	A ² ·s	13 300
• I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	A ² ·s	13 700
• I2t value / of the fuse / at 500 V / maximum permissible	A ² ·s	26 505
• I2t value / of the gG fuse / at 690 V / maximum permissible	A ² ·s	24 005
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

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		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	W	2

Electricity

• Operating current / at AC-21 A / at 400 V / maximum	A	63
• Operating current / at AC-21 A / at 500 V / maximum	A	63
• Operating current / at AC-21 A / at 690 V / maximum	A	63
• Operating current / at AC-23 A / at 500 V / at 50/60 Hz / rated value / maximum	A	63

• Operating current / at AC-22 A / at 500 V / at 50/60 Hz / rated value / maximum	A	63
• Operating current / at AC-22 A / at 400 V / at 50/60 Hz / rated value / maximum	A	63
• Operating current / at AC-22 A / at 690 V / at 50/60 Hz / rated value / maximum	A	63
• Operating current / at AC-23 A / at 400 V / at 50/60 Hz / rated value / maximum	A	63
• Operating current / at AC-23 A / at 690 V / at 50/60 Hz / rated value / maximum	A	63
Continuous current		
• rated value	A	63
• at 40 °C / rated value	A	63
• at 45 °C / rated value	A	63
• at 50 °C / rated value	A	63
• at 55 °C / rated value	A	63
• at 60 °C / rated value	A	63
• at 65 °C / rated value	A	63
• at 70 °C / rated value	A	63
Continuous current / at DC / rated value	A	63
Let-through current / of the fuse / at 500 V / maximum permissible	A	8 135
Let-through current / of the gG fuse / at 690 V / maximum permissible	A	8 805
Let-through current / with closed switch		
• at 690 V / for combination switch + gG fuse / maximum permissible	A	7 500
• for combination switch + fuse / at 400 V / maximum permissible	A	7 000
• for combination switch + fuse / at 500 V / maximum permissible	A	7 000
Short-time current resistance (Icw)		
• limited to 1 s / rated value	kA	3
• at 690 V AC/440 V DC / limited to 1 s / rated value	kA	3

Main circuit

Operating power		
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	kW	30
• at AC-23 A / at 500 V / at 50/60 Hz / rated value	kW	37
• at AC-23 A / at 690 V / at 50/60 Hz / rated value	kW	55
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	kA	7
• Short-circuit current making capacity (I _{cm}) / for switch disconnecter / without fuse link / rated value / minimum	kA	7
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 (2x9mm ²)
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• Type of connectable conductor cross-sections / for copper conductor / solid • Type of connectable conductor cross-sections / for copper conductor / finely stranded / with core end processing • Type of connectable conductor cross-sections / with flexible busbar • Type of connectable conductor cross-sections / for copper conductor / stranded	1x (1 ... 16mm ²) 1x (1 ... 35mm ²) 2x (0.8x9 mm ²) 1x (6 ... 35mm ²)
Type of electrical connection • for main current circuit	Box terminal

Mechanical Design		
Height	mm	119
Width	mm	112
Depth	mm	87
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	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		
• acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2		Q 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/3KD2642-2ME10-0>

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

<http://support.automation.siemens.com/WW/view/en/3KD2642-2ME10-0/all>

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

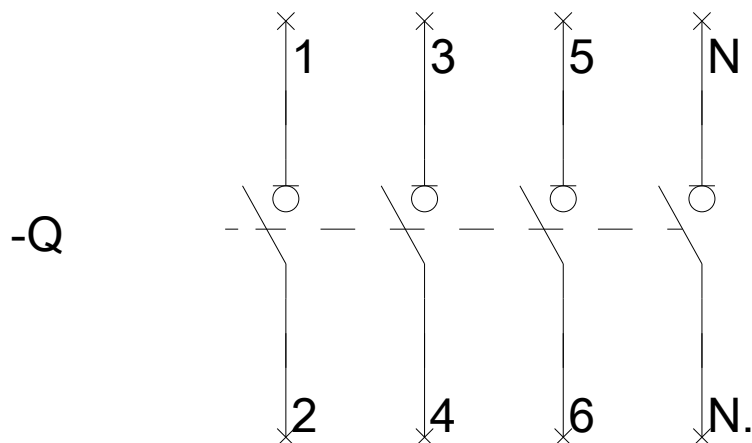
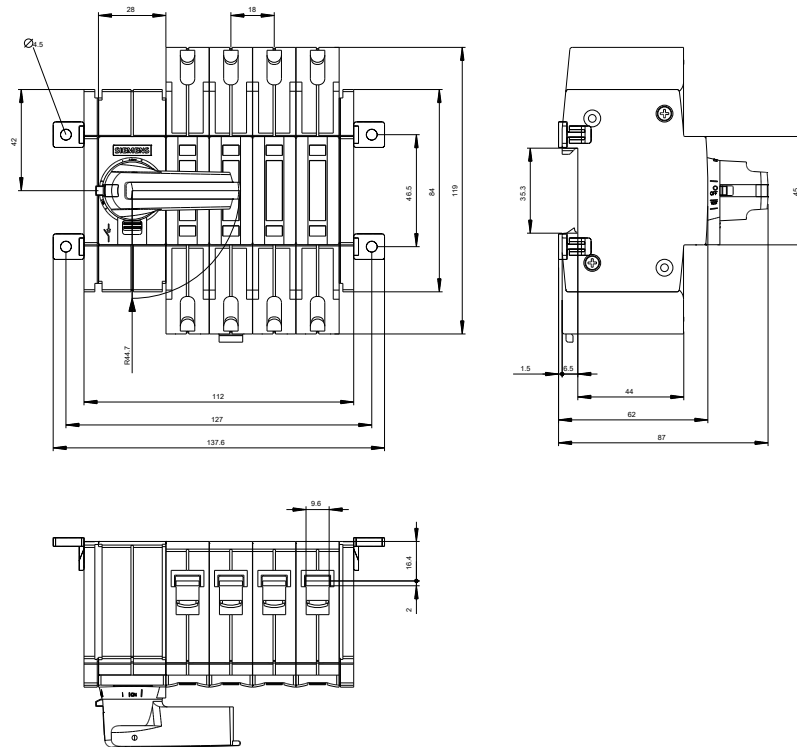
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD2642-2ME10-0

CAX-Online-Generator

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

Tender specifications

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



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10/14/2016