SIEMENS

Product data sheet 3KD5440-0RE20-0

SWITCH-DISCONNECTOR 1600A,
FRAME SIZE 5,
4-POLE FRONT OPERATING CENTER BASIC UNIT
WITHOUT HANDLE FLAT TERMINAL

Similar to image

General technical details:		
product brand name		SENTRON
Product designation		Switching device
Design of the product		3KD Switch Disconnectors
Size of switch disconnector		5
Number of poles		4
Continuous current		
• rated value	A	1,600
• at 40 °C / rated value	A	1,600
• at 45 °C / rated value	A	1,600
• at 50 °C / rated value	A	1,600
• at 55 °C / rated value	A	1,600
• at 60 °C / rated value	A	1,250
• at 65 °C / rated value	A	1,250
• at 70 °C / rated value	A	1,250
• at DC / rated value	A	1,600
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	1,600

• at 500 V / maximum	A	1,600
• at 690 V / maximum	A	1,600
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	1,600
• at 500 V / at 50/60 Hz / rated value / maximum	A	1,600
• at 690 V / at 50/60 Hz / rated value / maximum	A	1,600
• at AC-23 A		
• at 400 V / at 50/60 Hz / rated value / maximum	A	800
• at 500 V / at 50/60 Hz / rated value / maximum	A	800
• at 690 V / at 50/60 Hz / rated value / maximum	A	800
Operational voltage		
• at 50/60 Hz / for AC / rated value	V	690
• with 3 current paths in series / with DC / rated value	V	440
Insulation voltage / rated value	V	1,000
Impulse voltage resistance / rated value	kV	12
Overvoltage class		IV
Operating power / at AC-23 A		
• at 400 V / at 50/60 Hz / rated value	kW	400
• at 500 V / at 50/60 Hz / rated value	kW	560
• at 690 V / at 50/60 Hz / rated value	kW	800
I2t value / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum	$A^2 \cdot s$	30,900,000
• at 500 V / maximum	$A^2 \cdot s$	30,900,000
Let-through current / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum permissible	A	110,000
• at 500 V / maximum permissible	A	110,000
Short-time current resistance (Icw) / limited to 1 s / rated value	kA	50
Making capacity short-circuit current (Icm) / for switch disconnector / without fuse link / rated value / minimum	kA	105
Conditional short-circuit current / with line-side fuse protection		
• at 500 V / by gG fuse / rated value	kA	80
Active power loss / with conventional rated thermal current / per pole	W	120
Product equipment / interlock		No
Type of the driving mechanism / motor drive		No
Product extension / optional / motor drive		No
Design of the electrical connection / for main current circuit		flat connector
Type of connectable conductor cross-sections		

• for copper conductor / stranded / with lug		
• according to DIN 46234		1x (120 ... 240 mm²), 2x (95 ... 240 mm²)
• according to DIN 46235		1x (120 ... 240 mm²), 2x (95 ... 240 mm²)
• for copper busbar		2x (60x10 mm²)
Number of connected NC contacts / for auxiliary contacts		0
Number of connected NO contacts / for auxiliary contacts		0
Number of connected changeover contacts / for auxiliary contacts		0
Product extension / auxiliary switch		Yes
Number of NC contacts / for auxiliary contacts		8
Number of NO contacts / for auxiliary contacts		8
Number of changeover contacts / for auxiliary contacts		0
Acceptability for application / switch disconnector		Yes
Acceptability for application		
• emergency stop switch		No
• main switch		Yes
• safety cut-out switch		Yes
• maintenance/repair switch		Yes
Design of the operating mechanism		without
Mounting type		floor mounting
Mounting type / rail mounting		No
Mounting type / front mounting with 4-hole attachment		No
Mounting type / front mounting with central attachment		No
Type from device		fixed mounting
mounting position		any
Position / of switch operating mechanism		after the second pole
Design of handle		without
Width	mm	472
Height	mm	310
Depth	mm	152.5
Protection class IP		IP00
• on the front		IP00
• with closed switch / with cover or cable lug cover		IP20
Ambient temperature		
• during operating	°C	-25 … +70
• during storage	°C	-50 … +80
Degree of pollution		3
Mechanical operating cycles as operating time / typical		6,000
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz		500

• at DC-23 A		
• at 220 V		500
• at 440 V		500
Design of display		
• for switch position indicator door-coupling rotary operating mechanism		ON-OFF
Net weight	g	19,700
Reference code / according to DIN EN 61346-2		Q
Item designation / according to DIN EN 81346-2		Q

Certificates/approvals:

General Product Approval	Declaration of Conformity
GOST	EG-Konf.

Further information:

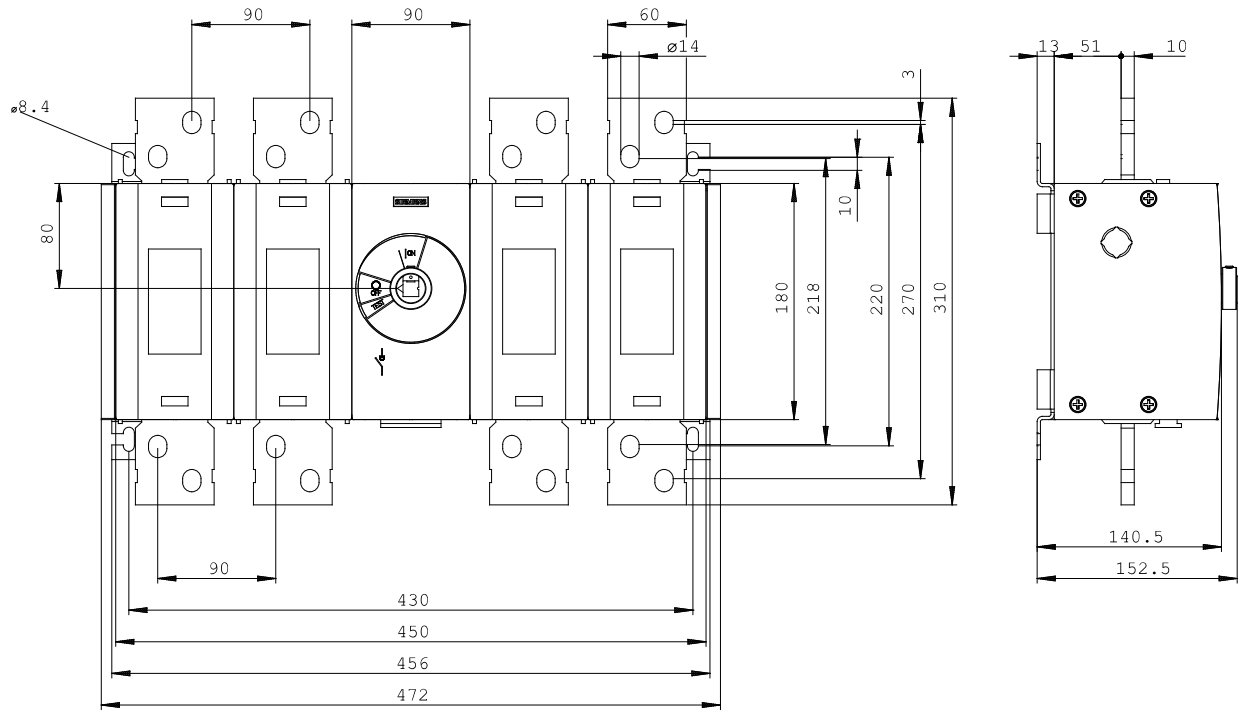
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs

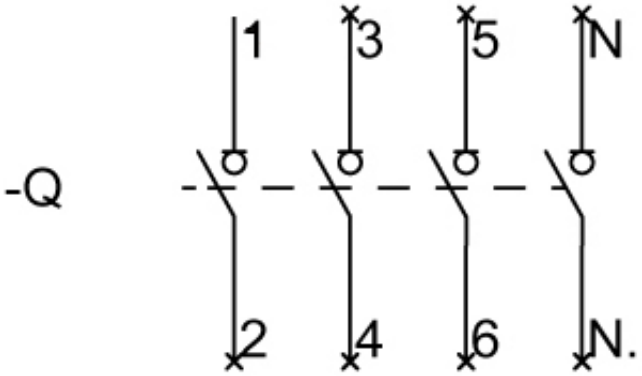
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD5440-0RE20-0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3KD5440-0RE20-0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5440-0RE20-0

CAx-Online-Generator
http://www.siemens.com/cax





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