SIEMENS

Product data sheet 3KD5430-0RE20-0



SWITCH-DISCONNECTOR 1600A, FRAME SIZE 5, 3-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		3		
Continuous current				
• rated value	Α	1,600		
• at 40 °C / rated value	Α	1,600		
• at 45 °C / rated value	Α	1,600		
• at 50 °C / rated value	Α	1,600		
• at 55 °C / rated value	Α	1,600		
• at 60 °C / rated value	Α	1,250		
• at 65 °C / rated value	Α	1,250		
• at 70 °C / rated value	Α	1,250		
at DC / rated value	Α	1,600		
Operating current				
• at AC-21 A				
• at 400 V / maximum	Α	1,600		

• at 500 V / maximum	Α	1,600
• at 690 V / maximum	Α	1,600
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	Α	1,600
• at 500 V / at 50/60 Hz / rated value / maximum	Α	1,600
• at 690 V / at 50/60 Hz / rated value / maximum	Α	1,600
• at AC-23 A		
• at 400 V / at 50/60 Hz / rated value / maximum	Α	800
• at 500 V / at 50/60 Hz / rated value / maximum	Α	800
• at 690 V / at 50/60 Hz / rated value / maximum	Α	800
• at DC-21 A		
• at 220 V / maximum / note		1600 / 2
• at 440 V / rated value / maximum / note		1600/3
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
l2t value / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum	A²-s	30,900,000
• at 500 V / maximum	A²·s	30,900,000
Let-through current / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum permissible	Α	110,000
• at 500 V / maximum permissible	Α	110,000
Short-time current resistance (lcw) / limited to 1 s / rated value	kA	50
Making capacity short-circuit current (lcm) / 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

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 first pole
Design of handle		without
Width	mm	360
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	15,700
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**





Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{\text{https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD5430-0RE20-0}}$

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

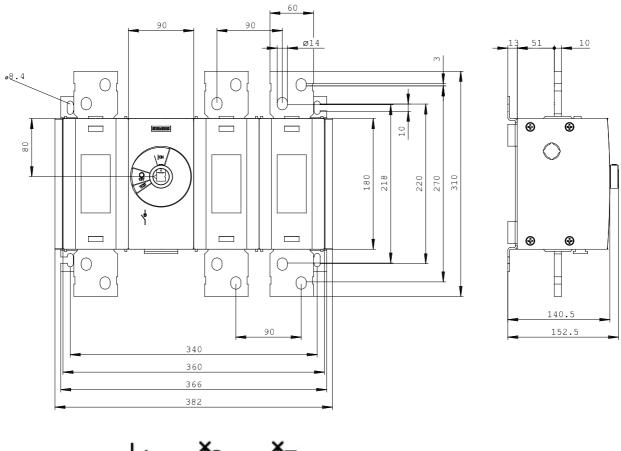
 $\underline{\text{http://support.automation.siemens.com/WW/view/en/3KD5430-0RE20-0/all}}$

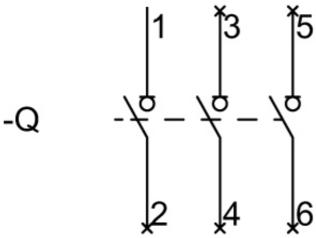
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5430-0RE20-0}$

CAx-Online-Generator

http://www.siemens.com/cax





last change: Apr 21, 2014