SIEMENS

Product data sheet 3KD4432-0QE10-0



SWITCH-DISCONNECTOR 500A, FRAME SIZE 4, 3-POLE FRONT OPERATING LEFT COMPLETE ASSEMBLY WITH DIRECT HANDLE GREY 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		4		
Number of poles		3		
Continuous current				
• rated value	Α	500		
• at 40 °C / rated value	Α	500		
• at 45 °C / rated value	Α	500		
• at 50 °C / rated value	Α	500		
• at 55 °C / rated value	Α	500		
• at 60 °C / rated value	Α	500		
• at 65 °C / rated value	Α	500		
• at 70 °C / rated value	Α	500		
at DC / rated value	Α	500		
Operating current				
• at AC-21 A				
• at 400 V / maximum	Α	500		

 at 690 V / maximum at AC-22 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 220 V / maximum / note at 440 V / rated value / maximum / note 500 / 2 at 440 V / rated value / maximum / note 500 / 3
 at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 220 V / maximum / note
 at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at DC-21 A at 220 V / maximum / note
 at 690 V / at 50/60 Hz / rated value / maximum at AC-23 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at DC-21 A at 220 V / maximum / note
 at AC-23 A at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at DC-21 A at 220 V / maximum / note 500 / 2
 at 400 V / at 50/60 Hz / rated value / maximum at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at DC-21 A at 220 V / maximum / note 500
 at 500 V / at 50/60 Hz / rated value / maximum at 690 V / at 50/60 Hz / rated value / maximum at DC-21 A at 220 V / maximum / note 500 / 2
• at 690 V / at 50/60 Hz / rated value / maximum A 500 • at DC-21 A • at 220 V / maximum / note 500 / 2
• at DC-21 A • at 220 V / maximum / note 500 / 2
• at 220 V / maximum / note 500 / 2
• at 440 V / rated value / maximum / note 500 / 3
• at DC-22 A
• at 220 V / rated value / maximum / note 500 / 2
• at 440 V / rated value / maximum / note 500 / 3
• at DC-23 A
• at 220 V / rated value / maximum / note 500 / 2
• at 440 V / rated value / maximum / note 500 / 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 280
• at 500 V / at 50/60 Hz / rated value kW 355
• at 690 V / at 50/60 Hz / rated value kW 500
I2t value / with closed switch
• for combination switch + fuse
• at 400 V / maximum A²-s 3,687,500
• at 500 V / maximum A²-s 3,687,500
• at 690 V
• for combination switch +gG fuse / maximum A²-s 4,450,000
Let-through current / with closed switch
• for combination switch + fuse
• at 400 V / maximum permissible A 61,600
• at 500 V / maximum permissible A 61,600
• at 690 V

• with combination switch +aM fuse / maximum permissible	Α	54,500
Short-time current resistance (lcw) / limited to 1 s / rated value	kA	30
Making capacity short-circuit current (lcm) / for switch disconnector / without fuse link / rated value / minimum	kA	63
Conditional short-circuit current / with line-side fuse protection		
• at 500 V / by gG fuse / rated value	kA	100
• at 690 V / by gG fuse / rated value	kA	65
Active power loss / with conventional rated thermal current / per pole	W	15
Product equipment / interlock		Yes
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 (25 240 mm²), 2x (25 240 mm²)
according to DIN 46235		1x (25 240 mm²), 2x (25 240 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		manual operating mechanism
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		at the left end
Design of handle		direct handle, grey

Width	mm	260
Height	mm	235
Depth	mm	166.5
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		8,000
Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz		1,000
• at DC-23 A		
• at 220 V		1,000
• at 440 V		1,000
Design of display		
• for switch position indicator manual operation		ON-OFF-TEST
Net weight	g	7,700
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)

 $\underline{\text{https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3KD4432-0QE10-0}}$

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

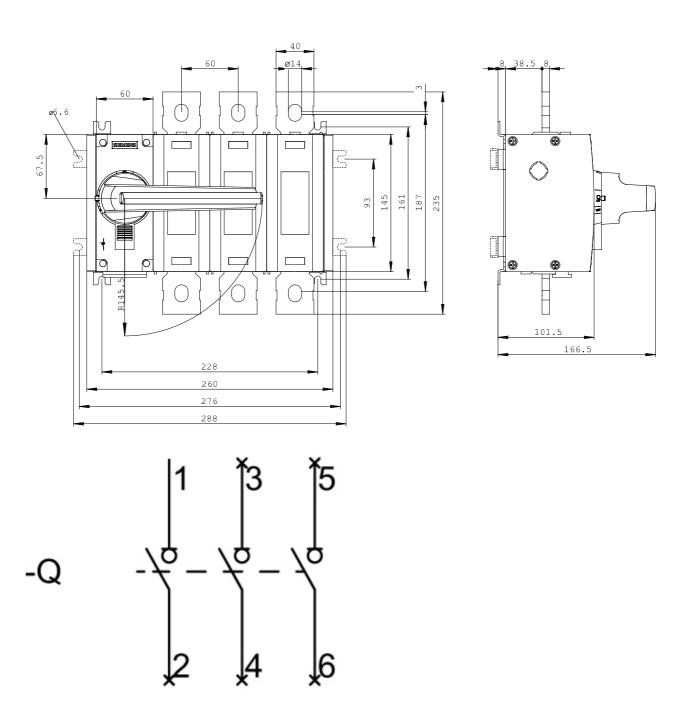
http://support.automation.siemens.com/WW/view/en/3KD4432-0QE10-0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD4432-0QE10-0

CAx-Online-Generator

http://www.siemens.com/cax



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