SIEMENS

Product data sheet 3KD5440-0RE10-0

SWITCH-DISCONNECTOR 1600A, FRAME SIZE 5, 4-POLE FRONT OPERATING LEFT 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	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
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	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
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		

To copper conductor / stranded / with lug			
- according to DIN 48235 - for copper busbar Number of connected NC contacts / for auxiliary contacts Number of connected changeover contacts / for auxiliary contacts Number of connected changeover contacts / for auxiliary contacts Number of nonected changeover contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts No No No N			
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Number of connected NO contacts / for auxiliary contacts Number of connected changeover contacts / for auxiliary contacts Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts Number of NO contacts / for auxiliary contacts Acceptability for application / switch disconnector Acceptability for application / switch disconnector - menregnery stop switch - main switch - safety cut-out switch - maintenance/repair switch Pesign of the operating mechanism Without Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment No Mounting type / front mounting with 4-hole attachment Nounting type / front mounting with central attachment Type from device - fixed mounting Position / of switch operating mechanism - atthe left end Design of handle Width - mm 472 Height - mm 310 Depth - mm 152.5 Protection class IP - on the front - with closed switch / with cover or cable lug cover Ambient temperature - during operating - vc 25 +70 - vc 25 +80 - during operating cycles as operating time / typical Electrical endurance (switching cycles)	for copper busbar		2x (60x10 mm²)
Number of connected changeover contacts / for auxiliary contacts Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts Number of NC contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Acceptability for application / switch disconnector Acceptability for application - emergency stop switch - main switch - main switch - maintenance/repair switch Posign of the operating mechanism Mounting type Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment No Mounting type / front mounting with central attachment Type from device mounting position Position / of switch operating mechanism Design of handle Width mm 472 Protection class IP - on the front - with closed switch / with cover or cable lug cover Ambient temperature - during operating - cduring operating cycles as operating time / typical Electrical endurance (switching cycles)	Number of connected NC contacts / for auxiliary contacts		0
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Number of changeover contacts / for auxiliary contacts Acceptability for application / switch disconnector Acceptability for application • emergency stop switch • main switch • safety cut-out switch • maintenance/repair switch Design of the operating mechanism Mounting type / roll mounting Mounting type / front mounting with 4-hole attachment Mounting type / front mounting with central attachment Type from device mounting position Position / of switch operating mechanism Beign of handle Width Height Depth Protection class IP • on the front • with closed switch / with cover or cable lug cover Ambient temperature • during storage **C 25 +70 • during storage Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Number of NC contacts / for auxiliary contacts		8
Acceptability for application / switch disconnector Acceptability for application • emergency stop switch • main switch • safety cut-out switch • maintenance/repair switch Design of the operating mechanism Mounting type Mounting type / front mounting with 4-hole attachment Mounting type / front mounting with central attachment Mounting type / front mounting with central attachment Mounting type / front mounting with central attachment Mounting type / front device mounting position Position / of switch operating mechanism Design of handle Width Height Depth Protection class IP • on the front • with closed switch / with cover or cable lug cover Ambient temperature • during operating • during storage Pere of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles) Withou No Yes No No No No No No No No No N	Number of NO contacts / for auxiliary contacts		8
Acceptability for application • emergency stop switch • main switch • safety cut-out switch • maintenance/repair switch • maintenance/repair switch Design of the operating mechanism Mounting type Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment Mounting type / front mounting with central attachment Type from device mounting position Position / of switch operating mechanism Width Midth mm 472 Position / of switch operating mechanism mm 152.5 Protection class IP • on the front • with closed switch / with cover or cable lug cover Ambient temperature • during operating • during storage Pogree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Number of changeover contacts / for auxiliary contacts		0
emergency stop switch *main switch *main switch *safety cut-out switch *maintenance/repair switch *maintenance/repair switch *maintenance/repair switch *maintenance/repair switch *maintenance/repair switch *maintenance/repair switch *maintenance/repair switch *mounting type *mounting type *mounting type / front mounting *mounting type / front mounting with 4-hole attachment *mounting type / front mounting with central attachment *mounting type / front mounting with central attachment *mounting position *position / of switch operating mechanism *mounting type / front mounting with central attachment *mounting position *mounting position *mounting type / front mounting with central attachment *without *without *without *without *without *without *without *without *without *pool *p	Acceptability for application / switch disconnector		Yes
* main switch * safety cut-out switch * maintenance/repair switch Pesign of the operating mechanism Mounting type Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment Mounting type / front mounting with central attachment Mounting type / front mounting with central attachment No Mounting position Type from device mounting position Position / of switch operating mechanism Design of handle Width mm 472 Height Height mm 310 Popth Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Perce of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Acceptability for application		
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• 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 Type from device fixed mounting mounting position any Position / of switch operating mechanism at the left end Design of handle without Width mm 472 Height 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 6,000 Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	• main 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 at the left end 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 *C -25 +70 • during operating *C -50 +80 Degree of pollution 3 Mechanical operating cycles as operating time / typical 6,000 Electrical endurance (switching cycles)	safety cut-out switch		Yes
Mounting type Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment Mounting type / front mounting with 4-hole attachment No Mounting type / front mounting with central attachment Type from device mounting position Position / of switch operating mechanism Design of handle Width mm 472 Height mm 310 Depth Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Pogree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	maintenance/repair switch		Yes
Mounting type / rail mounting Mounting type / front mounting with 4-hole attachment No Mounting type / front mounting with central attachment Type from device fixed mounting mounting position Position / of switch operating mechanism Design of handle Width mm 472 Height Depth Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Pegree of pollution Mounting type / front mounting with 4-hole attachment No No No No No No Antieved mounting No Antieved mounting with delet end without without without Without Without Mary 472 Height mm 310 152.5 Protection class IP on the front IP00 IP20 Ambient temperature during operating cduring storage C -25 +70 -50 +80 Pegree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Design of the operating mechanism		without
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mounting position Position / of switch operating mechanism at the left end Design of handle without Width mm 472 Height mm 310 Depth mm 152.5 Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles) at the left end without without ### 172 ### 1900 ### 1900 ### 1900 ### 1920 ###	Mounting type / front mounting with central attachment		No
Position / of switch operating mechanism Design of handle Width mm 472 Height mm 310 Depth mm 152.5 Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage C -25 +70 during storage C -50 +80 Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Type from device		fixed mounting
Design of handle Width mm 472 Height mm 310 Depth mm 152.5 Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	mounting position		any
Width mm 472 Height mm 310 Depth mm 152.5 Protection class IP on the front with closed switch / with cover or cable lug cover IP20 Ambient temperature during operating during storage Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Position / of switch operating mechanism		at the left end
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Depth mm 152.5 Protection class IP on the front with closed switch / with cover or cable lug cover IP20 Ambient temperature during operating during storage C -25 +70 during storage C -50 +80 Degree of pollution Blectrical endurance (switching cycles)	Width	mm	472
Protection class IP on the front with closed switch / with cover or cable lug cover Ambient temperature during operating during storage Degree of pollution Rechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Height	mm	310
 • on the front • with closed switch / with cover or cable lug cover Ambient temperature • during operating • during storage • C -25 +70 • during storage • C -50 +80 Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles) IP00 IP20 C -25 +70 6,000 Electrical endurance (switching cycles) 	Depth	mm	152.5
with closed switch / with cover or cable lug cover Ambient temperature during operating	Protection class IP		IP00
Ambient temperature • during operating • during storage • C -25 +70 • during storage ° C -50 +80 Degree of pollution 3 Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	• on the front		IP00
 during operating during storage C -25 +70 C -50 +80 Degree of pollution Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles) 	• with closed switch / with cover or cable lug cover		IP20
• during storage °C -50 +80 Degree of pollution 3 Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Ambient temperature		
Degree of pollution 3 Mechanical operating cycles as operating time / typical 6,000 Electrical endurance (switching cycles)	during operating	°C	-25 +70
Mechanical operating cycles as operating time / typical 6,000 Electrical endurance (switching cycles)	during storage	°C	-50 +80
Electrical endurance (switching cycles)	Degree of pollution		3
	Mechanical operating cycles as operating time / typical		6,000
• at AC-23 A / at 690 V / at 50/60 Hz 500	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





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/3KD5440-0RE10-0

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

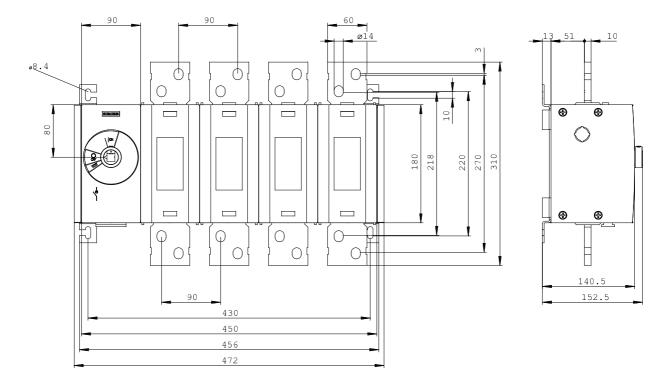
http://support.automation.siemens.com/WW/view/en/3KD5440-0RE10-0/all

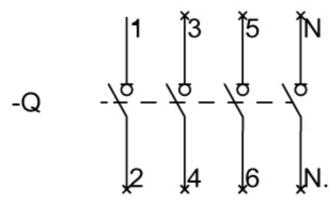
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KD5440-0RE10-0

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