## **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	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	٧	690
• with 3 current paths in series / with DC / rated value	٧	440
Insulation voltage / rated value	٧	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

* tor copper conductor / stranded / with lug     * according to DIN 46234     * according to DIN 46235     * tor copper bushar  Number of connected NC contacts / for auxiliary contacts  Number of connected NO contacts / for auxiliary contacts  Number of connected 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 NO contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Number of NO contacts / for auxiliary conta			
*according to DIN 46235  * for copper busbar  Number of connected NC contacts / for auxiliary contacts  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 NC contacts / for auxiliary contacts  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  No NO contacts / for auxiliary conta			
* 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  Product extension / auxiliary switch  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  **Acceptability for application / switch  **emergency stop switch  **emergency stop switch  **emergency stop switch  **emain switch  **yes  **Design of the operating mechanism  Mounting type / rail mounting  Mounting type / rail mounting with 4-hole attachment  No  Mounting type / front mounting with central attachment  No  Mounting type / front device  mounting position  Position / of switch operating mechanism  Design of handle  Width  ### 472  Height  ### 152.5  Protection class IP  **on the front	according to DIN 46234		1x (120 240 mm²), 2x (95 240 mm²)
Number of connected NC contacts / for auxiliary contacts  Number of connected changeover 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  Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  Acceptability for application / switch disconnector  Acceptability for application / switch  • main switch  • main switch  • safety cut-out switch  • maintenance/repair switch  Design of the operating mechanism  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  Height  mm 310  Popth  Protection class IP  • on the front	according to DIN 46235		1x (120 240 mm²), 2x (95 240 mm²)
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  Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  Acceptability for application / switch disconnector  Acceptability for application  • emergency stop switch  • safety cut-out switch  • safety cut-out switch  • main switch  • maintenance/repair switch  Design of the operating mechanism  Mounting type  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  Width  mm 472  Height  potential attachment  Protection class IP  • on the front  No  Position / of switch operating mechanism  mm 152.5  Protection class IP  • on the front	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 NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  Acceptability for application / switch disconnector  - emergency stop switch - main switch - main switch - maintenance/repair switch  Design of the operating mechanism  Mounting type  Mounting type / ront mounting with 4-hole attachment  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	Number of connected NC contacts / for auxiliary contacts		0
contacts  Product extension / auxiliary switch  Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  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  Mounting type / rall 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  Height  mm 472  Protection class IP  • on the front  Position / of laxiliary switch  Yes  8  8  8  8  8  8  8  8  8  8  8  8  8	Number of connected NO contacts / for auxiliary contacts		0
Number of NC contacts / for auxiliary contacts  Number of NO contacts / for auxiliary contacts  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  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  Midth  mm 472  Height protection class IP • on the front  No  0  0  0  0  0  0  0  0  0  0  0  0  0	_		0
Number of NO contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  Acceptability for application  • emergency stop switch • main switch • safety cut-out switch • safety cut-out switch • maintenance/repair switch  Design 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  Midth  mm 472  Height  protection class IP • on the front  No  Yes  No  No  No  No  Acceptability for application  Yes  No  No  Acceptability for application  Yes  No  No  Acceptability for application  No  Acceptability for application  No  No  Acceptability for application  No  Acceptability for application  No  Acceptability for application  No  No  Acceptable for a plantacing for a plantacin	Product extension / auxiliary switch		Yes
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  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  Design of handle  Width  Midth	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 / rail mounting  Mounting type / front mounting with 4-hole attachment  Mounting type / front mounting with central attachment  No  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  Depth  Protection class IP • on the front	Number of NO contacts / for auxiliary contacts		8
Acceptability for application  • emergency stop switch • main switch • safety cut-out 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 4-hole attachment  No  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  Midth  mm 472  Height  Depth  Protection class IP • on the front  No  No  No  No  Acceptability for application  No  No  No  Indicate the second pole  without  mm 310  Indicate the second pole  Indicate the second pole  Indicate the second pole  Without  Midth  Indicate the second pole  Without  Midth  Indicate the second pole  Without  Indicate the second pole  Without  Indicate the second pole  Without  Without  Indicate the second pole  Indicate the second pole	Number of changeover contacts / for auxiliary contacts		0
• emergency stop switch     • main switch     • main switch     • safety cut-out switch     • maintenance/repair switch      Design of the operating mechanism     Mounting type     Mounting type / rail mounting     Mounting type / rail mounting     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     without  Width     mm 472  Height     mm 310  Depth     protection class IP     • on the front       IP00       IP00       IP00	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  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  mm  472  Height  mm  310  Protection class IP  on the front  Yes  Yes  Yes  Yes  Yes  Yes  Area  Yes  Yes  Area  Yes  Yes  Area  Area  ##HOUT	Acceptability for application		
* 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  No  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  Mounting type / front mounting with central attachment  Fosition / of switch operating mechanism  Mounting position  Position / of switch operating mechanism  Mounting position  Position / of switch operating mechanism  Mounting position  Position / of switch operating mechanism  Mounting position  Mounting type / front mounting with 4-hole attachment  No  inverse mounting  without  without  Mounting type / front mounting  any  after the second pole  without  Mounting  Mounting type / front mounting  any  after the second pole  without  Mounting type / front mounting  mm 472  Height  mm 310  Protection class IP  on the front  IP00  IP00	emergency stop switch		No
* maintenance/repair switch     Design of the operating mechanism     Mounting type     floor mounting     Mounting type / rail mounting     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     Design of handle     without  Width     mm 472  Height     mm 310  Depth     protection class IP     on the front     in mounting     IP00  IP00  IP00	• main switch		Yes
Design of the operating mechanism without  Mounting type  Mounting type / rail mounting  Mounting type / front mounting with 4-hole attachment  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  on the front individual in the protection of the foot in t	• safety cut-out switch		Yes
Mounting type   floor mounting   No   No   Mounting type / front mounting with 4-hole attachment   No   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   without   Width   mm   472   Height   mm   310   Depth   mm   152.5   Protection class IP   IP00   • on the front   IP00	maintenance/repair switch		Yes
Mounting type / rail mounting  Mounting type / front mounting with 4-hole attachment  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  on the front IP00	Design of the operating mechanism		without
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  Design of handle  Width  mm  472  Height  mm  310  Depth  Protection class IP  on the front  No  No  No  No  fixed mounting  any  after the second pole  without  mm  472  Height  mm  152.5	Mounting type		floor mounting
Mounting type / front mounting with central attachment  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 on the front  No fixed mounting munuting mny after the second pole without  Without  IP00	Mounting type / rail mounting		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  • on the front IP00	Mounting type / front mounting with 4-hole attachment		No
mounting position  Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  mm 310  Depth  Protection class IP  on the front  on the front  any  after the second pole  without  mm 472  mm 152.5	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  after the second pole  without  mm 472  IP00	Type from device		fixed mounting
Design of handle  Width  mm 472  Height  mm 310  Depth  mm 152.5  Protection class IP  on the front  without  mm 472  IP00	mounting position		any
Width         mm         472           Height         mm         310           Depth         mm         152.5           Protection class IP             IP00           • on the front         IP00	Position / of switch operating mechanism		after the second pole
Height mm 310  Depth mm 152.5  Protection class IP  • on the front IP00	Design of handle		without
Depth mm 152.5  Protection class IP  • on the front IP00	Width	mm	472
Protection class IP  on the front  IP00  IP00	Height	mm	310
• on the front	Depth	mm	152.5
	Protection class IP		IP00
with closed switch / with cover or cable lug cover	• on the front		IP00
	with closed switch / with cover or cable lug cover		IP20
Ambient temperature	Ambient temperature		
• during operating °C -25 +70	during operating	°C	-25 +70
• during storage °C -50 +80	during storage	°C	-50 +80
Degree of pollution 3	Degree of pollution		3
Mechanical operating cycles as operating time / typical 6,000	Mechanical operating cycles as operating time / typical		6,000
Electrical endurance (switching cycles)	Electrical endurance (switching cycles)		
• at AC-23 A / at 690 V / at 50/60 Hz 500	• 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		
<ul> <li>for switch position indicator door-coupling rotary operating mechanism</li> </ul>		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/3KD5440-0RE20-0

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

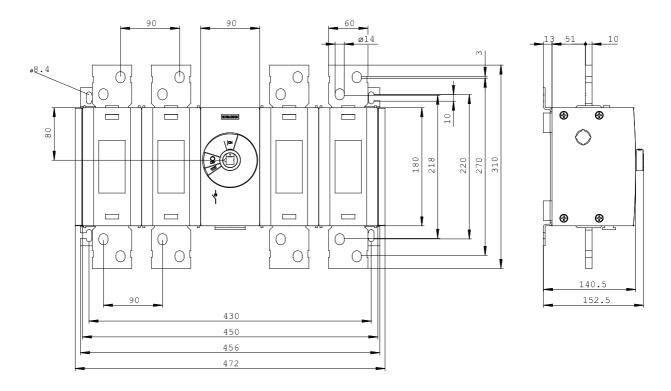
http://support.automation.siemens.com/WW/view/en/3KD5440-0RE20-0/all

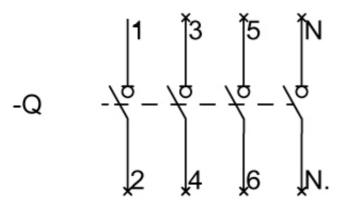
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$ 

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KD5440-0RE20-0

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last change: Apr 21, 2014