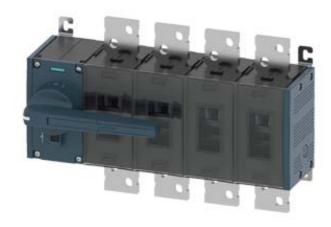
## **SIEMENS**

Product data sheet 3KD5242-0RE10-0

SWITCH-DISCONNECTOR 1250A, FRAME SIZE 5, 4-POLE FRONT OPERATING LEFT COMPLETE ASSEMBLY WITH DIRECT HANDLE GREY FLAT TERMINAL



Similar to image

and does because a mana		CENTRON
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	1,250
• at 40 °C / rated value	А	1,250
• at 45 °C / rated value	Α	1,250
• at 50 °C / rated value	А	1,250
• at 55 °C / rated value	Α	1,250
• 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	1,250
Operating current		
• at AC-21 A		
• at 400 V / maximum	A	1,250

• at 500 V / maximum	Α	1,250
• at 690 V / maximum	Α	1,250
• at AC-22 A		
• at 400 V / at 50/60 Hz / rated value / maximum	Α	1,250
• at 500 V / at 50/60 Hz / rated value / maximum	А	1,250
• at 690 V / at 50/60 Hz / rated value / maximum	Α	1,250
• 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	25,960,000
• at 500 V / maximum	A²·s	25,960,000
Let-through current / with closed switch		
• for combination switch + fuse		
• at 400 V / maximum permissible	Α	103,400
at 500 V / maximum permissible	Α	103,400
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	70
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		

1			
* according to DIN 46235  * for copper busbar  Number of connected NC contacts / for auxiliary contacts  Number of connected NC contacts / for auxiliary contacts  Number of connected Changeover contacts / for auxiliary contacts  Number of NC contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Number of nc auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Number of nc auxiliary contacts  Number of NC contacts / for auxiliary contacts  Number of changeover contacts / for auxiliary contacts  Number of pc application / switch disconnector  **Coeptability for application / switch disconnector  **Coeptability for application / switch disconnector  **Coeptability for application / switch  **analyticans of the operating mechanism  **No  **No  **Coeptability for application / switch  **analyticans of the operating mechanism  **No  **Safety cut-out switch  **Yes  **Safety cut-out switch  **Yes  **Safety cut-out switch  **Yes  **Safety cut-out switch  **Yes  **No  **No  **Design of the operating mechanism  **No  **Mounting type / front mounting with 4-hole attachment  **No  **No  **Mounting type / front mounting with 4-hole attachment  **No  **No			
Number of connected NC contacts / for auxiliary contacts			
Number of connected NC contacts / for auxiliary contacts Number of connected changeover contacts / for auxiliary contacts Product extension / auxiliary switch Product extension / auxiliary switch 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 NC contacts / for auxiliary contacts No N	according to DIN 46235		1x (120 240 mm²), 2x (95 240 mm²)
Number of connected NO contacts / for auxiliary contacts         0           Number of connected changeover contacts / for auxiliary contacts         Yes           Product extension / auxiliary switch         \$           Number of NC contacts / for auxiliary contacts         8           Number of NO contacts / for auxiliary contacts         0           Acceptability for application / switch disconnector         Yes           - emergency stop switch         No           - emergency stop switch         Yes           - main switch         Yes           - wear of the operating mechanism         No           Mounting type / rail mounting         No           Mounting type / front mounting with central attachment         No           Type from device         direct handle, grey	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 changeover contacts / for auxiliary contacts  Acceptability for application / switch disconnector  Acceptability for application  - emergency stop switch - main switch - witch operating mechanism  Mounting type / roin mounting - mounting type / roin mounting with 4-hole attachment  No  Mounting type / roin mounting with central attachment  No  Mounting type / front mounting with central attachment  No  No  Type front device - fixed mounting - any	Number of connected NC contacts / for auxiliary contacts		0
contacts         Yes           Product extension / auxiliary switch         Yes           Number of NC contacts / for auxiliary contacts         8           Number of NO contacts / for auxiliary contacts         9           Acceptability for application / switch disconnector         Yes           - emergency stop switch         Yes           - main switch         Yes           - safety cut-out switch         Yes           - main switch         Yes           - safety cut-out switch         Yes           - main switch         Yes           - safety cut-out switch         Yes           - main switch         Yes           - safety cut-out switch         Yes           - main switch         Yes           - safety cut-out switch         Yes           - besign of the operating mechanism         monuting yes / front mounting with 4-hole attachment         No           Type front mounting with central attachment         In the left end           Design of handle         direct handle, grey           Width         <	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 / switch disconnector - emergency stop switch - 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 Mounting type / front mounting with entral attachment Mounting type / front mounting with entral attachment Type from device - mounting position - position / of switch operating mechanism  Position / of switch operating mechanism  Method to switch operating mechanism - position / of switch operating operating operating - on the front - on the front - with closed switch / with cover or cable lug cover - Ambient emergency - during storage - C - 25 +70 - during storage - C - 50 +80 - Degree of pollution - switchlang cycles as operating time / typical - Electrical endurance (switching cycles)	-		0
Number of NO contacts / for auxiliary contacts         8           Number of changeover contacts / for auxiliary contacts         0           Acceptability for application / emergency stop switch         Yes           - emergency stop switch         No           - safety cut-out switch         Yes           - safety cut-out switch         Yes           - maintanace/repair switch         Yes           Design of the operating mechanism         manual operating mechanism           Mounting type         floor 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         at the left end           Design of handle         direct handle, grey           Width         mm         472           Width         mm         472           Height         mm         310           Depth         mm         212.5           Protection class IP         in poo           on the front         in poo         in poo           with closed switch / with cover or cable lug cover         in poo	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 / 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  Height  Depth  Protection class IP  • on the front  • with closed switch / with cover or cable lug cover  Ambient temperature  • during storage  • 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  • maintenance/repair switch  • maintenance/repair switch  Design of the operating mechanism  Mounting type  Mounting type / rall mounting  Mounting type / front mounting with 4-hole attachment  Mounting type / front mounting with central attachment  No  Mounting type / front mounting with central attachment  No  Type from device  mounting position  Position / of switch operating mechanism  besign of handle  Width  mm 472  Position / of switch operating mechanism  besign of handle  pepth  mm 212.5  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 25 +80  Begree of pollution  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)	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 4-hole attachment Mounting type / front mounting with central attachment Mounting type / front mounting with central attachment Type from device mounting position Position / of switch operating mechanism  Design of handle  Width mm 472  Width mm 310  Depth on the front • with closed switch / with cover or cable lug cover  Ambient temperature • during sorage • °C -25 +70 • during storage  Poglet in a sorage  # C -50 +80  Degree of pollution  Electrical endurance (switching cycles)	Number of changeover contacts / for auxiliary contacts		0
emergency stop switch     *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  Mounting type / front mounting with central attachment  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  bent front  on the front  with closed switch / with cover or cable lug cover  Ambient temperature  during storage  during storage  "C 25+70  during storage  "C 50+80  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)  No  manual operating mechanism  mounting  mounting  No  No  No  No  No  4  No  No  1  No  No  1  No	Acceptability for application / switch disconnector		Yes
• main switch • safety cut-out 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  Mounting position  Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  height  mm 310  Protection class IP • on the front • with closed switch / with cover or cable lug cover  • during operating • during storage  Pere of pollution  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)  Pesign of the operating mechanism  Manual operating mechanism  manual operating mechanism  mounting floor mounting floor mounting floor mounting floor mounting manual operating mechanism  No  No  direct handle, grey  direct handle, grey  direct handle, grey  ### ### ### ### ### ### ### ### ### #	Acceptability for application		
• safety cut-out switch • maintenance/repair switch  Pesign of the operating mechanism  Mounting type  Mounting type / foor mounting  Mounting type / front mounting with 4-hole attachment  Type from device  mounting position  Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  mm 310  Depth  en the front  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  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)	emergency stop switch		No
• 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           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         310           Peth         mm         212.5           Protection class IP         IP00           • on the front         IP00           • with closed switch / with cover or cable lug cover         IP20           Ambient temperature         **C         *25 +70           • during storage         **C         *50 +80           Degree of pollution         G,000           Mechanical operating cycles as operating time / typical         Electrical endurance (switching cycles)	• main 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     310       Depth     mm     212.5       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     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     310       Depth     mm     212.5       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)	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  Width  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  Antient mounting No  Antient defined Antient mounting with 4-hole attachment No  No  No  No  Antient left end  direct handle, grey  direct handle, grey  Froze thandle, grey  IP00  IP00  IP00  IP20  Ambient temperature  during operating CC  -50 +80  Degree of pollution  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)	Design of the operating mechanism		manual operating mechanism
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       472         Height       mm       310         Depth       mm       212.5         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)       -6,000	Mounting type		floor mounting
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  oduring operating  oduring storage  Degree of pollution  Mounting type / front mounting with central attachment  fixed mounting  any  at the left end  direct handle, grey  Mirch andle, grey  mm 310  Protection class IP  IP00  IP00  IP00  Ambient temperature  oduring operating  oc -25 +70  oc -55 +80  Degree of pollution  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)	Mounting type / rail mounting		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 472  Height mm 310  Depth mm 212.5  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 3  Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles)	Mounting type / front mounting with 4-hole attachment		No
mounting position Position / of switch operating mechanism at the left end  Design of handle Width mm 472 Height mm 310 Depth mm 212.5  Protection class IP on the front with closed switch / with cover or cable lug cover  Ambient temperature during operating vduring storage  Degree of pollution  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)  at the left end direct handle, grey direct handle, grey  at the left end  at the left en	Mounting type / front mounting with central attachment		No
Position / of switch operating mechanism  Design of handle  Width  mm 472  Height  mm 310  Depth  mm 212.5  Protection class IP  on the front  with closed switch / with cover or cable lug cover  Ambient temperature  during operating  during storage  C -25 +70  - 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 212.5  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)	mounting position		any
Width     mm     472       Height     mm     310       Depth     mm     212.5       Protection class IP <ul> <li>on the front</li> <li>with closed switch / with cover or cable lug cover</li> <li>lP00</li> <li>with closed switch / with cover or cable lug cover</li> <li>lP20</li> </ul> Ambient temperature <ul> <li>during operating</li> <li>°C         <li>-25 +70</li> <li>during storage</li> <li>°C         <li>-50 +80</li> </li></li></ul> Degree of pollution     3       Mechanical operating cycles as operating time / typical     6,000           Electrical endurance (switching cycles)         -6,000	Position / of switch operating mechanism		at the left end
Height mm 310  Depth mm 212.5  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)	Design of handle		direct handle, grey
Depth mm 212.5  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  Blectrical endurance (switching cycles)	Width	mm	472
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  Mechanical operating cycles as operating time / typical  Electrical endurance (switching cycles)	Height	mm	310
<ul> <li>on the front</li> <li>with closed switch / with cover or cable lug cover</li> <li>Ambient temperature</li> <li>during operating</li> <li>during storage</li> <li>C -25 +70</li> <li>during storage</li> <li>C -50 +80</li> <li>Degree of pollution</li> <li>Mechanical operating cycles as operating time / typical</li> <li>Electrical endurance (switching cycles)</li> </ul>	Depth	mm	212.5
<ul> <li>with closed switch / with cover or cable lug cover</li> <li>Ambient temperature</li> <li>during operating</li> <li>during storage</li> <li>C -25 +70</li> <li>during storage</li> <li>C -50 +80</li> <li>Degree of pollution</li> <li>Mechanical operating cycles as operating time / typical</li> <li>Electrical endurance (switching cycles)</li> </ul>	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
<ul> <li>during operating</li> <li>during storage</li> <li>C -25 +70</li> <li>C -50 +80</li> <li>Degree of pollution</li> <li>Mechanical operating cycles as operating time / typical</li> <li>Electrical endurance (switching cycles)</li> </ul>	• 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 manual operation		ON-OFF-TEST
Net weight	g	20,700
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/3KD5242-0RE10-0

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

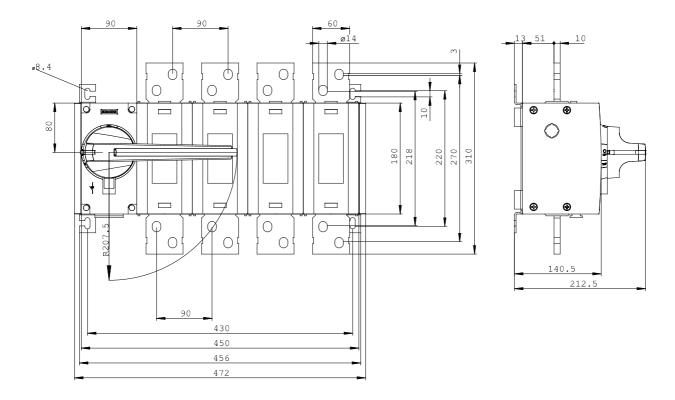
http://support.automation.siemens.com/WW/view/en/3KD5242-0RE10-0/all

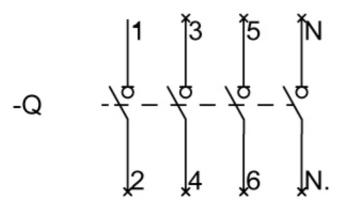
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3KD5242-0RE10-0}$ 

**CAx-Online-Generator** 

http://www.siemens.com/cax





last change: Apr 21, 2014