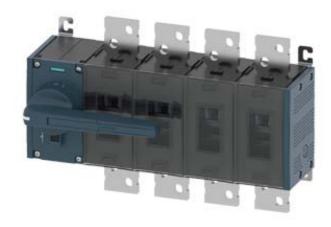
SIEMENS

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

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	1,250		
• at 40 °C / rated value	Α	1,250		
• at 45 °C / rated value	Α	1,250		
• at 50 °C / rated value	Α	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	Α	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	Α	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 nonected Changeover contacts / for auxiliary contacts Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of changeover contacts / for auxiliary contacts Number of paplication / switch disconnector **Compatibility for application / switch disconnector **Compatibility for application / switch **analytic cut-out switch			
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 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 - ma	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 310 Protection class IP in on the front in pool • on the front with closed switch / with cover or cable lug cover in pool Ambien	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 Type from device mm 310 Depth 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 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 storage **C -25 +70 • during storage **C -50 +80 Degree of pollution Biesting in switch in special side of the control	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 Imm 472 Height Imm 310 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 **C 25+80 Mechanical operating cycles as operating time / typical Electrical endurance (switching cycles) **No **Tope from device **No **No No No **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 -55 +70 during storage 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 on the front with closed switch / with cover or cable lug cover lP00 with closed switch / with cover or cable lug cover lP20 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	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
 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) 	Depth	mm	212.5
 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) 	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 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,...)

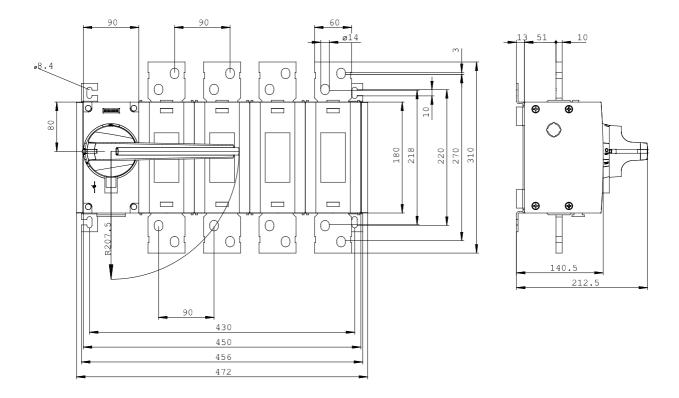
http://support.automation.siemens.com/WW/view/en/3KD5242-0RE10-0/all

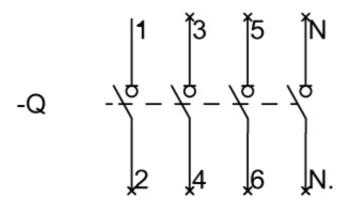
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

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

CAx-Online-Generator

http://www.siemens.com/cax





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