SIEMENS

Data sheet

3LD2203-3VK53

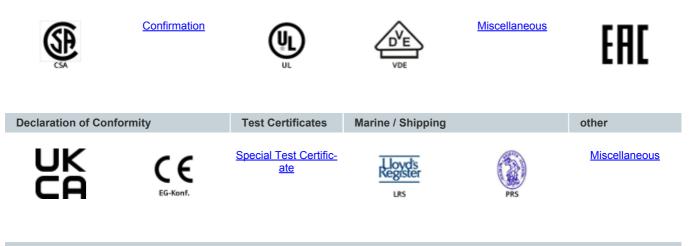


SENTRON, Switch disconnector 3LD, emergency switching-off switch, 6-pole, Iu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

product brand name SENTRON product designation 3LD Switch disconnector design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 10N - 0 OFF type of switch front mounted type of switch front mounted design of the actuating element red color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Central technical data	Model	
design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data number of poles size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V operating requency / rated value 690 V operating roltage e at A C / rated value 690 V operating voltage e at A C / rated value 690 V operating voltage e at A C / rated value 690 V operating voltage resistance / rated value 690 V operating voltage resistance / r	product brand name	SENTRON
display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data	product designation	3LD Switch disconnector
operation front mounted design of the actuating element red color / of the actuating element red design of handle rotary operating mechanism, red/yellow bype of the driving mechanism / motor drive No General technical data 6 number of poles 6 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 1/h insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating voltage 6kV operating voltage 6kV operating rolection class 1/P protection class 1/P protection class IP / on the front 1/P65 degree of protection NEMA rating 1.3k W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole <	design of the product	EMERGENCY-STOP switch
Asign of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data number of poles number of poles 6 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V<		1 ON - 0 OFF
color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data Inumber of poles size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage Insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • at AC / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 70 Hz operating frequency / rated value 70 Hz	type of switch	front mounted
design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 680 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operation class IP 18 protection class IP / on the front 1965 protection class IP / on the front	design of the actuating element	Short rotary knob
type of the driving mechanism / motor drive No General technical data number of poles 6 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 0 0 operating frequency / maximum 50 1/h degree of pollution 3 Voitage insulation voitage / rated value 690 V surge voitage resistance / rated value 690 V operating frequency / maximum 60 1/h degree of pollution 3 Voitage • at AC / rated value 690 V surge voitage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V 0 0 0 operating frequency / rated value 690 V 0 0 0 operating frequency / rated value 690 V 0 0 0 operating frequency / rated value	color / of the actuating element	red
General technical data 6 number of poles 6 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 60 00 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating requency / rated value 690 V operating roltage 61 KV operating roltage 61 KV operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operation class IP IP65 protection class IP IP65 operating state / per pole 1.8 W operational cur	design of handle	rotary operating mechanism, red/yellow
number of poles 6 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 60 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating requency / maximum 60 kV operating voltage 690 V • at AC / rated value 690 V operating voltage 6 kV operating requency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 70 Hz maximum 50 Hz protection class IP IP65 protection class IP on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current	type of the driving mechanism / motor drive	No
size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating trequency / rated value 690 V operating frequency / rated value 70 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation	General technical data	
mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 6100 • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 600 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 operating state / per pole 32 A operational current / rated value 32 A	number of poles	6
electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 64V operating voltage 6 kV operating frequency / rated value 690 V operating voltage 6 kV operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 600 V operating frequency / rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current / rated value 32 A	size of switch disconnector	2
• at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP 1.8 W protection class IP / on the front IP65 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current 32 A operational current 32 A	mechanical service life (switching cycles) / typical	100 000
operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 600 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W current 32 A operational current / rated value operational current / rated value 32 A 32 A	electrical endurance (switching cycles)	
degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 680 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP / on the front IP65 Dissipation 1, 3R, 4X, 12 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W current 32 A	• at AC-23 A / at 690 V	6 000
Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current / rated value 32 A	operating frequency / maximum	50 1/h
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 current 0perating state / per pole operational current / rated value 32 A operational current 32 A	degree of pollution	3
surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz • minimum 50 Hz • maximum 60 Hz Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current 32 A operational current 32 A	Voltage	
operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class 100 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current 32 A operational current 32 A	insulation voltage / rated value	690 V
• at AC / rated value 690 V operating frequency / rated value 50 Hz • maximum 60 Hz Protection class 60 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current / rated value 32 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value 50 Hz • maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 degree of protection vector ve	operating voltage	
• minimum 50 Hz • maximum 60 Hz Protection class protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current 32 A	at AC / rated value	690 V
maximum 60 Hz Protection class protection class IP iP65 degree of protection NEMA rating protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Operational current / rated value according to the form of the form of the current / at AC / in operational current / rated value according to the form of	operating frequency / rated value	
Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current / rated value 32 A • at 40 °C / rated value 32 A	• minimum	50 Hz
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current operational current / rated value operational current 32 A operational current 32 A	• maximum	60 Hz
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current operational current / rated value operational current 32 A operational current 32 A	Protection class	
protection class IP / on the front IP65 Dissipation IP65 power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current / rated value 32 A operational current 32 A	protection class IP	IP65
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 32 A operational current 32 A • at 40 °C / rated value 32 A	degree of protection NEMA rating	1, 3R, 4X, 12
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current 0 operational current / rated value 32 A operational current 32 A	protection class IP / on the front	IP65
bot operating state / per pole Current operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A	Dissipation	
operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A		1.8 W
operational current 32 A	Current	
• at 40 °C / rated value 32 A	operational current / rated value	32 A
	operational current	
• at 45 °C / rated value 32 A	 at 40 °C / rated value 	32 A
	• at 45 °C / rated value	32 A

a at 50 °C / rated value	20 A
• at 50 °C / rated value	32 A
• at 55 °C / rated value	32 A
at AC / rated value	32 A
Main circuit	
operational current	
at AC-21 / at 690 V / rated value	32 A
at AC-21 A / at 240 V / rated value	32 A
at AC-21 A / at 400 V / rated value	32 A
• at AC-21 A / at 440 V / rated value	32 A
at AC-23 A / at 400 V / rated value	22 A
operating power	C LANI
• at AC-23 A / at 240 V / rated value	6 kW
• at AC-23 A / at 400 V / rated value	12 kW
• at AC-23 A / at 440 V / rated value	11.5 kW
• at AC-23 A / at 690 V / rated value	12 kW
• at AC-3 / at 240 V / rated value	5.5 kW
• at AC-3 / at 400 V / rated value	10 kW
at AC-3 / at 690 V / rated value	9.5 kW
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
operating voltage / of auxiliary contacts / at AC / maximum	500 V
continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	
suitability for use	Vee
main switch a switch	Yes
switch disconnector	
EMERGENCY OFF switch a sofety awitch	Yes
 safety switch maintenance/repair switch 	Yes
Product details	
	Yes
product feature / can be locked into OFF position accessories	
product extension / optional • motor drive	No
	No
voltage trigger number of connectable NC contacts / for auxiliary contacts	2
/ attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
number of bracket locks / maximum	3
hasp thickness / of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current / with line-side fuse protection	
 at 690 V / by gG fuse / rated value 	50 kA
let-through current / with closed switch	
 at 240 V / for combination switch + gG fuse / maximum 	4.5 kA
 at 440 V / for combination switch + gG fuse / maximum 	4.5 kA
 at 690 V / for combination switch + gG fuse / maximum permissible 	5 kA
l2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum	9 kA2.s
l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	9 kA2.s

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	9 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	40 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	32 A
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	600 V
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	5 kA
continuous current / of upstream fuse / according to UL / rated value	80 A
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	8
• minimum	14
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (1,516mm ²)
 finely stranded / with core end processing 	1x (1,510mm ²)
stranded	1x (1,516mm²)
type of connectable conductor cross-sections / for	
auxiliary contactssolid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
type of electrical connection	
for main current circuit	box terminal
 for auxiliary contacts 	connection terminals
Mechanical Design	
height	83 mm
width	67 mm
depth	92.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
front mounting with central attachment	No
rail mounting	No
net weight	383 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	



other

Environmental Confirmations

urther information Information- and Do http://www.siemens.c	loadcenter (Catalogs, Brochures,)	
Industry Mall (Onlin		
	uals, Certificates, Characteristics, FAQs,) iemens.com/cs/ww/en/ps/3LD2203-3VK53	
0	ct images, 2D dimension drawings, 3D models, device circuit diagrams,) emens.com/bilddb/cax_en.aspx?mlfb=3LD2203-3VK53	
CAx-Online-General http://www.siemens.c	/cax	
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