## SIEMENS

## Data sheet

## 3LD2203-1TP51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, black, 4-hole mounting of the handle

product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         Main switch           display version / for switch position indicator manual operation         10N - 0 OFF           type of switch         front mounted           design of the actuating element         Black           color / of the actuating element         black           design of handle         rotary operating mechanism, black           type of the driving mechanism / motor drive         No           Genoral technical data	Model					
design of the product     Main 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     black       design of thandle     rotary operating mechanism, black       type of the driving mechanism / motor drive     No       General technical data     number of poles       size of switch disconnector     2       electrical endurance (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     0000       electrical endurance (switching cycles)     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     6 000       operating versition of the value     690 V       operating voltage (rated value     690 V       operating voltage     600 V       e at A C / rated value     690 V       operating rotection NEMA rating     50 Hz       operating frequency / rated value     60 V       operating rotection class IP     IP65       protection class IP / on the front     IP65       Dissipation     1.8 W       power loss [W] / for rated value of the current / at AC / in     1.8 W       operation	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       black         color / of the actuating element       black         design of handle       rotary operating mechanism, black         type of switch       rotary operating mechanism, black         type of the driving mechanism / motor drive       No         General technical data	product designation	3LD Switch disconnector				
operation         front mounted           type of switch         front mounted           design of the actuating element         black           color / of the actuating element         black           design of handle         rotary operating mechanism, black           type of the driving mechanism / motor drive         No           General technical data	design of the product	Main switch				
design of the actuating element       Short rotary knob         color / of the actuating element       black         design of handle       rotary operating mechanism, black         type of the driving mechanism / motor drive       No         General technical data       number of poles         number of poles       3         size of switch disconnector       2         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       0000         operating frequency / maximum       6000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         operating frequency / maximum       680 V         surge voltage resistance / rated value       680 V         operating requency / rated value       690 V         entinimum       50 Hz         operating requency / rated value       690 V         operating frequency / rated value       700 Hz <t< td=""><td></td><td>1 ON - 0 OFF</td></t<>		1 ON - 0 OFF				
color / of the actuating element     black       design of handle     rotary operating mechanism, black       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       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       operating frequency / rated value     690 V       operating frequency / rated value     690 V       operating rollage     690 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       Dissipatio	type of switch	front mounted				
design of handle       rotary operating mechanism, black         type of the driving mechanism / motor drive       No         General technical data	design of the actuating element	Short rotary knob				
type of the driving mechanism / motor drive       No         General technical data       number of poles       3         size of switch disconnector       2       mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       100 000       6 000       000         operating frequency / maximum       50 1/h       degree of pollution       3         Voitage       insulation voltage / rated value       690 V       surge voltage resistance / rated value       690 V         operating frequency / maximum       60 V       surge voltage 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       operating frequency / rated value       60 Hz         Protection class IP       IP65       degree of protection NEMA rating       1, 3R, 4X, 12       protection class IP         potection class IP / on the front       IP65       IP65       IP65       IP65       IP65         Dissipation       power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       32 A       32 A	color / of the actuating element	black				
General technical data         number of poles       3         size of switch disconnector       2         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       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 requency / rated value       690 V         operating voltage       64 V         operating requency / 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       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       18 W         operational curr	design of handle	rotary operating mechanism, black				
number of poles       3         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       690 V         insulation voltage / rated value       690 V         operating requency / rated value       690 V         operating voltage       6 kV         operating reguency / rated value       690 V         operating frequency / rated value       690 V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating requency / rated value       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       I	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)       6 000         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 frequency / maximum       600 V         operating to voltage       64V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating to voltage       64V         operating frequency / rated value       690 V         operating frequency / rated value       50 Hz         operation class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W	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         operating requency / rated value       690 V         operating voltage       6         • at AC / rated value       690 V         operating voltage       690 V         operating requency / rated value       690 V         operating requency / 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       1.8 W         poperating state / per pole       32 A         operational current / rated value	number of poles	3				
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         operating voltage       690 V         • 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 requency / rated value       690 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       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       690 V         operatin class       Protection class         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 val	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         6 kV           operating voltage         690 V           • at AC / rated value         690 V           operating frequency / rated value         60 Hz           Protection class         IP           protection class IP         IP65           degree of protection NEMA rating         1, 3R, 4X, 12           protection class IP / on the front         IP65           Dissipation         1.8 W           current         32 A           operational current / rated value         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       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         • minimum       50 Hz         • maximum       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       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 voltage       690 V         operating frequency / rated value       50 Hz         operating state / per pole       IP65         Dissipation       IP65         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	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       1065         gree 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	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       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         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       126         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         operational current / rated value       32 A         operational current       at 40 °C / rated value       32 A	insulation voltage / rated value	690 V				
• at AC / rated value       690 V         operating frequency / rated value       50 Hz         • minimum       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       1P65         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       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       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     Current     operational current / rated value     32 A     operational current     • at 40 °C / rated value     32 A	operating frequency / rated value					
Protection class         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       32 A         operational current       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       32 A         operational current / rated value       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       0perational current / rated value         operational current       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       operational current / rated value       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				
hot 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       • at 40 °C / rated value       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				

	20.4
• at 50 °C / rated value	32 A
• at 55 °C / rated value	32 A
at AC / rated value	32 A
Main circuit	
operational current	
<ul> <li>at AC-21 / at 690 V / rated value</li> </ul>	32 A
<ul> <li>at AC-21 A / at 240 V / rated value</li> </ul>	32 A
<ul> <li>at AC-21 A / at 400 V / rated value</li> </ul>	32 A
<ul> <li>at AC-21 A / at 440 V / rated value</li> </ul>	32 A
• at AC-23 A / at 400 V / rated value	22 A
operating power	
<ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>	6 kW
<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	12 kW
<ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>	11.5 kW
<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	12 kW
<ul> <li>at AC-3 / at 240 V / rated value</li> </ul>	5.5 kW
<ul> <li>at AC-3 / at 400 V / rated value</li> </ul>	10 kW
• at AC-3 / at 690 V / rated value	9.5 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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	
main switch	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
Product details	
product feature / can be locked into OFF position	Yes
accessories	
product extension / optional	
motor drive	No
<ul> <li>voltage trigger</li> </ul>	No
number of connectable NC contacts / for auxiliary contacts	2
/ attachable / maximum	
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
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	
<ul> <li>at 240 V / for combination switch + gG fuse / maximum</li> </ul>	4.5 kA
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	4.5 kA
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	5 kA
I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum	9 kA2.s
I2t value / with closed switch / at 440 V / for combination	

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	9 kA2.s			
design of the fuse link				
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 40 A			
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	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 (1,516mm²)			
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (1,510mm²)			
stranded	1x (1,516mm²)			
type of connectable conductor cross-sections / for				
<ul><li>auxiliary contacts</li><li>solid</li></ul>	lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary			
<ul> <li>finely stranded / with core end processing</li> </ul>	switch 1x (0,75 2,5mm <sup>2</sup> ) lateral auxiliary switch 2x (0,75 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary			
• stranded	switch 1x 2,5mm <sup>2</sup> lateral auxiliary switch 2x (0,75 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary			
tune of electrical connection	switch 1x (0,75 2,5mm <sup>2</sup> )			
type of electrical connection <ul> <li>for main current circuit</li> </ul>	box terminal			
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals			
Mechanical Design	connection terminals			
	00			
height	83 mm			
width	67 mm 92.5 mm			
depth type of device	92.5 mm fixed mounting			
fastening method	Built-in unit fixed-mounted version			
fastening method				
4-hole front mounting	Yes			
<ul> <li>front mounting with central attachment</li> </ul>	No			
rail mounting	No			
net weight	221 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				
ocherar i roudet Approval				

	<u>Confirmation</u>	CCC			<u>Miscellaneous</u>
General Product Approval	Declaration of Confo	ormity	Test Certificates	Marine / Shipping	
EHC	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	Lloyd's Register urs	PES
other					
Environmental Con- firmations	<u>Miscellaneous</u>				

**Further information** 

CAx-Online-Generator http://www.siemens.com/cax Tender specifications

Information- and Downloadcenter (Catalogs, Brochures,...)

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2203-1TP51

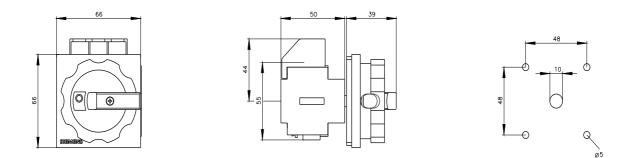
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2203-1TP51

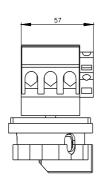
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2203-1TP51

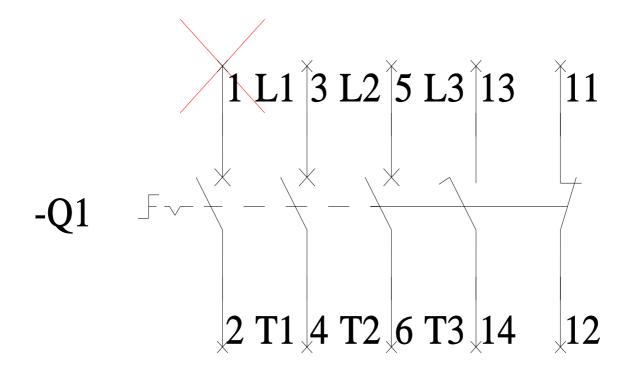
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

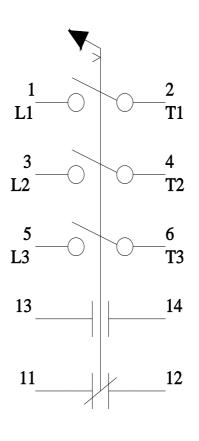
http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system)

http://www.siemens.com/specifications









-CI

C