## **SIEMENS**

Data sheet 3LD2122-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, floor mounting with door coupling, knob-operated mechanism, black, 4-hole mounting of the handle

product brand name product design atton design of the product display version / for switch position indicator manual operation type of switch design of the actuating element clob / of the actuating element design of the actuating element design of the actuating element design of he actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive design of handle knob-operated mechanism, black type of the driving mechanism / motor drive design of handle type of switch disconnector  number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical end	Model		
design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive Knob-operated mechanism, black type of the driving mechanism / motor drive No  General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3  Vottage insulation voltage / rated value operating voltage at AC / rated value operating frequency / rated value operating of the minimum of the protection class IP degree of protection NEMA rating protection class IP / on the front IP65  Dissipation  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value at 40 °C / rated value  at 40 °C / rated value  55 A operational current  at 40 °C / rated value  25 A operational current  at 40 °C / rated value  25 A	product brand name	SENTRON	
display version / for switch position indicator manual operation  type of switch  design of the actuating element  color / of the actuating element  black  design of handle  type of the driving mechanism / motor drive  No  Ceneral technical data  number of poles  size of switch disconnector  electrical endurance (switching cycles) / typical  electrical endurance (switching cycles) / typical  electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  for operating voltage  insulation voltage / rated value  operating frequency / rated value  • minimum  • maximum  for Hz  emaximum  for Hz  for tection class IP  protection class IP / on the front  Dissipation  power loss [W] / for rated value  operational current / rated value	product designation	3LD Switch disconnector	
operation type of switch design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive No  General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 / at 690 V operating frequency / maximum degree of pollution  Voltage insulation voltage / rated value • perating voltage • at AC / rated value • minimum • maximum  found • maximum  found  protection class protection class IP / on the front Dissipation  power loss [W] / for rated value operating outered value of the current / at AC / in hot operating state / per pole  Current • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value  operational current / rated value	design of the product	Main switch	
design of the actuating element black color / of the driving mechanism / motor drive No No Ceneral technical data number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / 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 voltage - at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating regulation voltage / rated value 690 V operating regulation / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 Hz Protection class IP / operation class IP / operation operation state / per pole 1P65		1 ON - 0 OFF	
color / of the actuating element design of handle type of the driving mechanism / motor drive No  Ceneral technical data  number of poles size of switch disconnector electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3  Voltage insulation voltage / rated value operating frequency / rated value • at AC / rated value • minimum • maximum  50 Hz  degree of protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  Dissipation  Overating state / per pole  Current • at 40 °C / rated value  25 A  operational current / rated value operating state / per pole  Current • at 40 °C / rated value  25 A	type of switch	Floor mounting with door coupling	
design of handle knob-operated mechanism, black 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) 4 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 / maximum 50 tkV operating frequency / 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 frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 690 V  operating frequency / rated value 700 Hz  operation class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front 1965  Dissipation 11 W  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value 25 A	design of the actuating element	selector switch	
type of the driving mechanism / motor drive  General technical data  number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / 6 000 operating frequency / maximum 50 1/h degree of pollution  Voltage insulation voltage / rated value operating vitage resistance / rated value operating frequency / rated value  • at AC / rated value • operating frequency / rated value • minimum • maximum  Protection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value  25 A operational current out 40 °C / rated value 25 A	color / of the actuating element	black	
General technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum  60 Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current • at 40 °C / rated value	design of handle	knob-operated mechanism, black	
number of poles  size of switch disconnector  geochanical service life (switching cycles) / typical electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  degree of pollution  Voltage insulation voltage / rated value surge voltage resistance / rated value  operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  50 Hz  Protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  • at 40 °C / rated value  25 A  operational current / rated value  • at 40 °C / rated value  25 A	type of the driving mechanism / motor drive	No	
size of switch disconnector  mechanical service life (switching cycles) / typical electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  foo 1/h degree of pollution  voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage  • at AC / rated value operating frequency / rated value  • minimum  omaximum  foo Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value  25 A operational current o at 40 °C / rated value  25 A operational current o at 40 °C / rated value  25 A	General technical data		
mechanical service life (switching cycles) / typical electrical endurance (switching cycles)  • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3  Voltage insulation voltage / rated value surge voltage resistance / rated value  • at AC / rated value  • at AC / rated value  • at AC / rated value  • minimum  • maximum  50 Hz  Protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value  • at 40 °C / rated value  25 A  operational current  • at 40 °C / rated value  • at 40 °C / rated value  25 A	number of poles	3	
electrical endurance (switching cycles)  • at AC-23 A / at 690 V  operating frequency / maximum  foo 1/h  degree of pollution  Voltage  insulation voltage / rated value  surge voltage resistance / rated value  operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • minimum  • maximum  foo Hz  Protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  • at 40 °C / rated value  25 A  operational current  • at 40 °C / rated value  25 A	size of switch disconnector	2	
at AC-23 A / at 690 V operating frequency / maximum degree of pollution  70tage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value operating frequency / rated value operating frequency / rated value ominimum ominimu	mechanical service life (switching cycles) / typical	100 000	
operating frequency / maximum degree of pollution  7	electrical endurance (switching cycles)		
degree of pollution  Voltage  insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage  • at AC / rated value 690 V  operating frequency / rated value  • minimum 50 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  Current operational current / rated value 25 A  operational current • at 40 °C / rated value 25 A	• at AC-23 A / at 690 V	6 000	
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage • at AC / rated value 690 V operating frequency / rated value • 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  Current operational current / rated value • at 40 °C / rated value 25 A	operating frequency / maximum	50 1/h	
insulation voltage / rated value  surge voltage resistance / rated value  operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  50 Hz  • maximum  50 Hz  Protection class  protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  • at 40 °C / rated value  690 V  6 kV  690 V  690 V  6 kV  690 V  10 Hz  690 V  10 Hz  690 V  11 Hz  690 V  11 Hz  690 V  12 Hz  690 V  6 kV  690 V  6 kV  690 V  6 kV  690 V  6 kV  6 kV  690 V  6 kV  690 V  6 kV  690 V  690 V	degree of pollution	3	
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum  50 Hz • maximum  Frotection class  protection class IP degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current operational current / rated value of the value of the current operational current / rated value of the value of the current operational current operational current of the value of the value operational current of the value of the value operational current operational current of the value of the value operational current operational current of the value of the value operational current operational current operational current operational current operational current	Voltage		
operating voltage  • at AC / rated value  operating frequency / rated value  • minimum  • maximum  50 Hz  60 Hz   Protection class  protection class IP  degree of protection NEMA rating protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  25 A	insulation voltage / rated value	690 V	
<ul> <li>at AC / rated value</li> <li>operating frequency / rated value</li> <li>minimum</li> <li>maximum</li> <li>fo Hz</li> </ul> Protection class protection class IP <ul> <li>degree of protection NEMA rating</li> <li>protection class IP / on the front</li> <li>IP65</li> </ul> Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current <ul> <li>operational current / rated value</li> <li>at 40 °C / rated value</li> <li>25 A</li> </ul> 25 A 25 A 26 A 26 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value	operating voltage		
	at AC / rated value	690 V	
	operating frequency / rated value		
protection class IP  degree of protection NEMA rating 1, 3R, 4X, 12  protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  other in the state of the current / at AC / in hot operational current / at AC / in hot operational current / rated value  25 A  operational current  other in the state of the current / at AC / in hot operational current / rated value  25 A	• minimum	50 Hz	
protection class IP  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  operational current / rated value  operational current  • at 40 °C / rated value  1, 3R, 4X, 12  2, 5A	<ul><li>maximum</li></ul>	60 Hz	
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 operational current  • at 40 °C / rated value  25 A	Protection class		
protection class IP / on the front  Dissipation  power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  25 A	protection class IP	IP65	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  operational current  • at 40 °C / rated value  25 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  Current  operational current / rated value  operational current  • at 40 °C / rated value  25 A	protection class IP / on the front	IP65	
hot operating state / per pole  Current  operational current / rated value  operational current  operational current  operational current  25 A  25 A	Dissipation		
operational current / rated value 25 A  operational current  • at 40 °C / rated value 25 A		1.1 W	
operational current  • at 40 °C / rated value 25 A	Current		
• at 40 °C / rated value 25 A	operational current / rated value	25 A	
	operational current		
a at 45 °C / rated value	<ul> <li>at 40 °C / rated value</li> </ul>	25 A	
♥ at ₹5 O / Tated value 25 //	• at 45 °C / rated value	25 A	

at 50 °C / rated value	25 A
	25 A
at 55 °C / rated value     at AC / rated value	25 A
at AC / rated value  Main significant	25 A
Main circuit	
operational current	05.4
• at AC-21 / at 690 V / rated value	25 A
at AC-21 A / at 240 V / rated value	25 A
• at AC-21 A / at 400 V / rated value	25 A
• at AC-21 A / at 440 V / rated value	25 A
at AC-23 A / at 400 V / rated value	20 A
operating power	
• at AC-23 A / at 240 V / rated value	5 kW
• at AC-23 A / at 400 V / rated value	10 kW
• at AC-23 A / at 440 V / rated value	9.5 kW
• at AC-23 A / at 690 V / rated value	10 kW
• at AC-3 / at 240 V / rated value	4 kW
• at AC-3 / at 400 V / rated value	8 kW
at AC-3 / at 690 V / rated value	7.5 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	V.
• main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
• safety switch	Yes
maintenance/repair switch	Yes
Product details	V
product feature / can be locked into OFF position	Yes
accessories	
product extension / optional	
motor drive	No
voltage trigger	No
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
number of bracket locks / maximum	2
hasp thickness / of the bracket locks	4 6 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>	3.5 kA
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	3.5 kA
at 690 V / for combination switch + gG fuse / maximum permissible	4 kA
I2t value / with closed switch / at 240 V / for combination switch + gG fuse / maximum	4 kA2.s
I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA2.s

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	4 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit / required	fuse gL/gG: 25 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	25 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
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	50 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	
auxiliary contacts  ■ solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	71 mm
width	49 mm
depth	85.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul> <li>4-hole front mounting</li> </ul>	Yes
<ul> <li>front mounting with central attachment</li> </ul>	No
rail mounting	Yes
net weight	186 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	



Confirmation







<u>Miscellaneous</u>

General Product Approval

**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping







Special Test Certificate





Marine / Shipping

other



**Miscellaneous** 

Environmental Confirmations

## Further information

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

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2122-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2122-0TK11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2122-0TK11

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications











