## SIEMENS

## Data sheet

## 3LD2130-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         Main switch           10N - 0 OFF         0 NN - 0 OFF           type of switch         DIN-rail mounting           design of the actuating element         selector switch           color / of the actuating element         black           design of handle         knob-operated mechanism, black           (ype of the driving mechanism / motor drive         No           Ceneral technical data	Model	
design of the product     Main switch       display version / for switch position indicator manual operation     1 ON - 0 OFF       type of switch     DIN-rail mounting       design of the actuating element     selector switch       color / of the actuating element     black       design of handle     knot-operated mechanism, black       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     6 800 V       surge voltage resistance / rated value     690 V       operating requency / rated value     6 kV       operating rollage     600 V       e at AC / rated value     690 V       operating rollage     600 V       surger voltage resistance / rated value     690 V       operating rollage     600 V       operating rollage     600 V       operating voltage     60 V       operating rollage     60 Hz       Protection class IP     IP40       Disipation     1.1 W       Disipation     25 A	product brand name	SENTRON
display version / for switch position indicator manual operation       1 ON - 0 OFF         type of switch       DIN-rail mounting         design of the actuating element       black         design of handle       knob-operated mechanism, black         type of switch       DIN-rail mounting         design of handle       knob-operated mechanism, black         type of the driving mechanism / motor drive       No         General technical data	product designation	3LD Switch disconnector
operation         DN-rail mounting           design of the actuating element         selector switch           color / of the actuating element         black           design of handle         knob-operated mechanism, black           hype of the driving mechanism / motor drive         No           General technical data	design of the product	Main switch
design of the actuating element     selector switch       color / of the actuating element     black       design of handle     knob-operated 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     6 000       operating frequency / maximum     60 100       degree of pollution     3       Voltage        insulation voltage / rated value     680 V       operating frequency / maximum     60 kV       operating voltage resistance / rated value     680 V       operating voltage        • at AC / rated value     690 V       operating frequency / rated value     690 V       operating voltage        • at AC / rated value     690 V       operating frequency / rated value        operating frequency / rated value        operating to voltage / rated value <td></td> <td>1 ON - 0 OFF</td>		1 ON - 0 OFF
color / of the actuating element     black       design of handle     knob-operated mechanism, black       type of the driving mechanism / motor drive     No       General tochnical data     Inumber of poles       size of switch disconnector     2       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     6000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     Insulation voltage / rated value       e at AC-23 A / at 690 V     690 V       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     Insulation voltage / rated value       e 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     100 Hz       Protection class IP     IP40       protection class IP / on the front     IP40       Dissipation     1.1 W       power loss [W] / for rated value     25 A       operational current / rated value     25 A       operational current     25 A	type of switch	DIN-rail mounting
design of handle       knob-operated mechanism, black         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       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       60 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         insulation voltage / rated value       690 V         operating frequency / maximum       60 KV         operating frequency / rated value       690 V         operating roltage       e at AC / rated value         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         Protection class IP / on the front       IP40         Dissipation       1.1 W<	design of the actuating element	selector switch
type of the driving mechanism / motor drive       No         General technical data	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       60 00         operating frequency / maximum       50 1/h         degree of pollution       3         Votage       690 V         insulation voltage / rated value       690 V         operating requency / rated value       690 V         surge voltage resistance / rated value       690 V         operating voltage       64V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       70 Hz         protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         operational current / r	design of handle	knob-operated mechanism, black
number of poles       3         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         operating requency / rated value       680 V         operating requency / rated value       680 V         operating frequency / rated value       690 V         enaximum       50 Hz         operating frequency / rated value       690 V         operation class IP       12         protection class IP       1940         protection class IP / on the front       1P40         Dissipation       1.1 W         operational current / rated value of the current / at AC / in hot operating state / per pole       25 A         operational current       25 A	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     6000       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     64V       operating frequency / rated value     690 V       operating frequency / rated value     50 Hz       protection class IP     IP40       protection class IP / on the front     IP40       Dissipation     1.1 W       power loss [W] / for rated value of the current / at AC / in hot operating state / per pole     1.1 W       operational current     25 A       operational current     25 A       operational current     25 A       operat	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       690 V         insulation voltage / rated value       690 V         operating requency / rated value       690 V         operating voltage resistance / rated value       690 V         operating voltage       690 V         • at AC / rated value       690 V         operating trequency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating trequency / rated value       690 V         operating frequency / rated value       690 V         operating trequency / rated value       690 V         operating trequency / rated value       600 Hz         Protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       25 A         operational current       25 A         operational current       25 A         operational current	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         surge voltage resistance / rated value       690 V         operating voltage       6 kV         operating voltage       6 kV         operating frequency / maximum       50 Hz         operating frequency / rated value       690 V         operating frequency / rated value       600 Hz         Protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         operational current       25 A         operational current       25 A         operational current       25 A </td <td>size of switch disconnector</td> <td>2</td>	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         64 KV           • at AC / rated value         690 V           operating requency / rated value         690 V           operating frequency / rated value         60 Hz           Protection class         P           protection class IP         IP40           protection class IP / on the front         IP40           Dissipation         1.1 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         25 A           operational current / rated value         25 A           operational current / rated value         25 A           • at 40 °C / rated value         25 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         60 Hz           Protection class         P           protection class IP         IP40           protection class IP / on the front         IP40           Dissipation         1.1 W           power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         1.1 W           operational current / rated value         25 A           operational current         25 A           • at 40 °C / rated value         25 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 requency / rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       25 A         operational current       at 40 °C / rated value       25 A         • at 40 °C / rated value       25 A       25 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         • 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       IP40         Dissipation       IP40         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Operating current       25 A         operational current       25 A         • at 40 °C / rated value       25 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       1P40         protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         operational current       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 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       1P40         protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Operational current       25 A         operational current       25 A         • at 40 °C / rated value       25 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       10 Hz         protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Operational current / rated value       25 A         operational current       at 40 °C / rated value         • at 45 °C / rated value       25 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       IP40         protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       25 A         operational current / rated value       25 A         operational current       41 0 °C / rated value         • at 45 °C / rated value       25 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value       50 Hz         • maximum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP       IP40         protection class IP / on the front       IP40         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       25 A         operational current / rated value       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	operating voltage	
<ul> <li>minimum</li> <li>50 Hz</li> <li>maximum</li> <li>60 Hz</li> <li>Protection class</li> <li>protection class IP</li> <li>protection class IP / on the front</li> <li>IP40</li> <li>protection class IP / on the front</li> <li>IP40</li> <li>Dissipation</li> <li>power loss [W] / for rated value of the current / at AC / in hot operating state / per pole</li> <li>Current</li> <li>operational current / rated value</li> <li>25 A</li> <li>operational current</li> <li>at 40 °C / rated value</li> <li>25 A</li> <li>at 45 °C / rated value</li> <li>25 A</li> </ul>	<ul> <li>at AC / rated value</li> </ul>	690 V
maximum 60 Hz      Protection class      protection class IP     protection class IP / on the front     IP40      protection class IP / on the front     IP40      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         • at 45 °C / rated value	operating frequency / rated value	
Protection class       IP40         protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       IP40         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       operational current / rated value       25 A         operational current       e at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	• minimum	50 Hz
protection class IP       IP40         protection class IP / on the front       IP40         Dissipation       IP40         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       25 A         operational current / rated value       25 A         operational current       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	• maximum	60 Hz
protection class IP / on the front       IP40         Dissipation       1.1 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       25 A         operational current / rated value       25 A         operational current       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	Protection class	
Dissipation         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.1 W         Current       operational current / rated value       25 A         operational current       at 40 °C / rated value       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	protection class IP	IP40
power loss [W] / for rated value of the current / at AC / in       1.1 W         hot operating state / per pole       1.1 W         Current       25 A         operational current       25 A         operational current       25 A         • at 40 °C / rated value       25 A         • at 45 °C / rated value       25 A	protection class IP / on the front	IP40
bot operating state / per pole       Current       operational current / rated value     25 A       operational current     25 A       • at 40 °C / rated value     25 A       • at 45 °C / rated value     25 A	Dissipation	
operational current / rated value25 Aoperational current	power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.1 W
operational current     25 A       • at 40 °C / rated value     25 A       • at 45 °C / rated value     25 A	Current	
<ul> <li>at 40 °C / rated value</li> <li>at 45 °C / rated value</li> <li>25 A</li> <li>25 A</li> </ul>	operational current / rated value	25 A
• at 45 °C / rated value 25 A	operational current	
	• at 40 °C / rated value	25 A
• at 50 °C / rated value 25 A	• at 45 °C / rated value	25 A
	• at 50 °C / rated value	25 A

a at 55 °C / rated value	25 A
<ul> <li>at 55 °C / rated value</li> <li>at AC / rated value</li> </ul>	25 A 25 A
Main circuit	
operational current	
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
<ul> <li>at AC-21 A / at 440 V / rated value</li> </ul>	25 A
<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	20 A
operating power	
<ul> <li>at AC-23 A / at 240 V / rated value</li> </ul>	5 kW
<ul> <li>at AC-23 A / at 400 V / rated value</li> </ul>	10 kW
<ul> <li>at AC-23 A / at 440 V / rated value</li> </ul>	9.5 kW
<ul> <li>at AC-23 A / at 690 V / rated value</li> </ul>	10 kW
<ul> <li>at AC-3 / at 240 V / rated value</li> </ul>	4 kW
<ul> <li>at AC-3 / at 400 V / rated value</li> </ul>	8 kW
• at AC-3 / at 690 V / rated value	7.5 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0 500 V
operating voltage / of auxiliary contacts / at AC / maximum continuous current / of the auxiliary contact / rated value	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	500 V
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
<ul> <li>safety switch</li> </ul>	Yes
maintenance/repair switch	Yes
Product details	
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	2
number of connectable NO contacts / for auxiliary contacts	4
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts	0
/ attachable / maximum number of bracket locks / maximum	
hasp thickness / of the bracket locks	2 4 6 mm
Short circuit	4 0 mm
conditional short-circuit current / with line-side fuse	
protection	50 kA
t at 690 V / by gG fuse / rated value  let-through current / with closed switch	
• at 240 V / for combination switch + gG fuse /	3.5 kA
<ul> <li>at 240 V / for combination switch + gG fuse /</li> </ul>	3.5 kA
maximum	
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
l2t value / with closed switch / at 690 V / for combination	4 kA2.s

design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 25 A				
for short-circuit protection of the auxiliary switch /     required	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	2x (0.75 2.5 mm²), 1x 4 mm²				
<ul> <li>finely stranded / with core end processing</li> </ul>	2x (0.75 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup>				
stranded	2x (0.75 2.5 mm²), 1x 4 mm²				
type of electrical connection					
for main current circuit	box terminal				
for auxiliary contacts	connection terminals				
Mechanical Design					
height	55 mm				
width	53 mm				
depth	91 mm				
type of device	fixed mounting				
_ fastening method	Built-in unit fixed-mounted version				
• 4-hole front mounting	No				
<ul> <li>front mounting with central attachment</li> </ul>	No				
rail mounting	Yes				
net weight	165 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					
<u>Confirmation</u>	Miscellaneous				
(SA) (m)					
CSA CCC	UL VDE				

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General Product Approval	Declaration of Conf	ormity	Marine / Shipping	other	
EHC	UK CA	CE EG-Konf.	Lloyd's Register uts	<u>Miscellaneous</u>	Environmental Con- firmations

## 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=3LD2130-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2130-0TK11

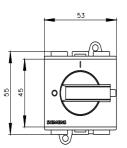
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

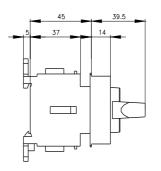
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2130-0TK11

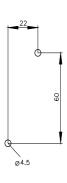
**CAx-Online-Generator** 

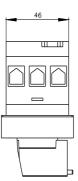
http://www.siemens.com/cax

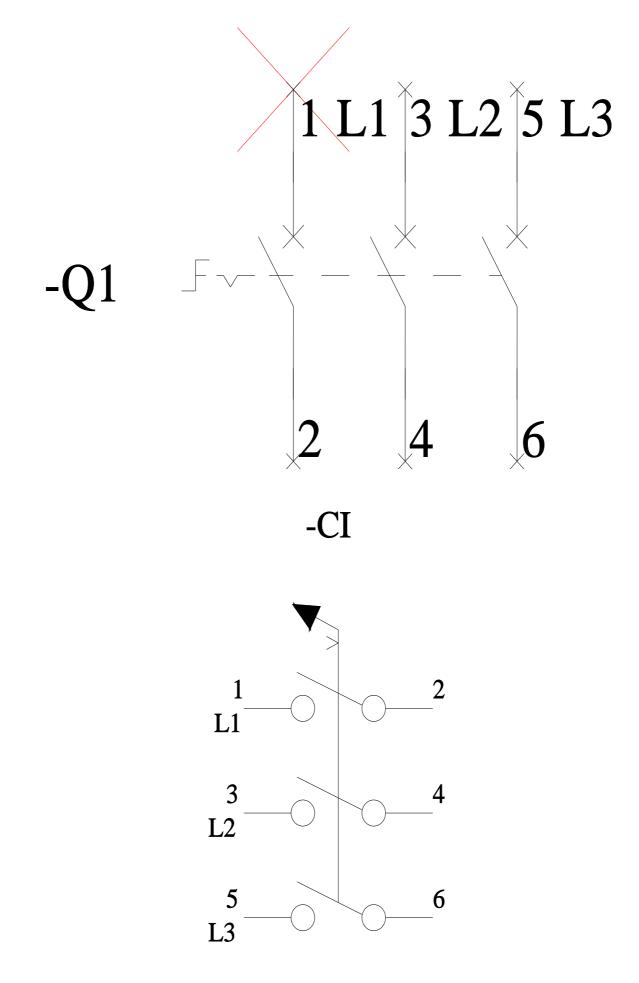
Tender specifications http://www.siemens.com/specifications











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