## SIEMENS

## Data sheet

## 3LD3250-1TK11



Load disconnector 3LD3, lu 32 A Main switch 3-pole Rated operating capacity for AC-23 A at 400V 11.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 48x48 mm with auxiliary switch 10E + 1S

product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         Main switch           diplay version / for switch position indicator manual operation         1 ON - 0 OFF           type of switch         front mounted           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         3           number of poles         3         number of poles         3           number of poles         3         100 000         electrical endurance (switching cycles) / typical         100 000           electrical endurance (switching cycles) / typical         100 000         electrical endurance (switching cycles) / typical         600 0           operating frequency / maximum         50 1/h         degree of pollution         3           Voltage         e at AC / rated value         690 V         6 kV           operating frequency / rated value         690 V         6 kV         6 kV           operating frequency / rated value         60 Hz         Fortection class IP         Fote fol	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     selector switch       color / of the actuating element     black       design of handle     knob-operated mechanism, black       type of the driving mechanism / motor drive     No       Ceneral technical data     number of poles       number of poles     3       number of poles     3       number of poles     3       electrical endurance (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 frequency / rated value     690 V       operating voltage        • at AC / rated value     690 V       operating rotage        • at AC / rated value     690 V       operating voltage        • at AC / rated value     690 V       operating voltage        • at AC / rated value        0 Hz        protection class IP     IP65       d	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         design of handle       knob-operated mechanism, black         type of the driving mechanism / motor drive       No         General technical data       number of poles / note         number of poles / note       3         mechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       100 000         electrical endurance (switching cycles) / typical       50 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         operating frequency / maximum       690 V         surge voltage resistance / 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 </td <td>product designation</td> <td>3LD Switch disconnector</td>	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         knob-operated mechanism, black           type of the driving mechanism / motor drive         No           General technical data         number of poles           number of poles         3           number of poles / note         3           mechanical service life (switching cycles) / typical         100 000           electrical endurance (switching cycles)         6000           operating frequency / maximum         50 1/h           degree of pollution         3           Voltage         finsulation 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           edity voltage         64 kV           operating frequency / rated value         690 V           edity voltage         64 kV           operating frequency / rated value         690 V           oprotection class IP         IP65	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 / note     3       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     00 00       operating frequency / maximum     60 00       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     selector solution       surge voltage resistance / rated value     680 V       operating frequency / rated value     690 V       surge voltage resistance / rated value     690 V       operating frequency / rated value     700 Hz       operating frequency / rated value     700 Hz    <		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 technical data     number of poles / note       number of poles / note     3       nechanical 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 requency / rated value     690 V       operating requency / rated value     690 V       operating frequency / rated value     600 Hz       Protection class IP     Protection class IP       protection class IP / on the front     IP65       Dissipation     1.8 W       operational	type of switch	front mounted	
design of handle       knob-operated mechanism, black         type of the driving mechanism / motor drive       No         General technical data       3         number of poles       3         number of poles / note       3         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 voltage       61 kV         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         Protection class IP       IP65         degree of protecton NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       18 W         hot operating state / per pole       32 A         operational current / rated value       32 A         operational current       32 A	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         number of poles       3         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       insulation voltage / rated value         insulation voltage / rated value       690 V         operating voltage resistance / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       1, 3R, 4X, 12         protection class IP	design of handle	knob-operated mechanism, black	
number of poles       3         number of poles / note       3         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         operating voltage resistance / rated value       690 V         operating voltage       680 V         operating frequency / rated value       690 V         operating voltage       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         operation class IP       IP65         protection class IP / on the front       IP65         Dissipation       1.8 W         potentional current / rated value       32 A         operational cur	type of the driving mechanism / motor drive	No	
number of poles / note       3         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         Voitage       690 V         insulation voltage / rated value       690 V         surge voltage resistance / rated value       690 V         operating frequency / maximum       600 V         operating frequency / rated value       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         • minimum       50 Hz         • 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       IN8         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       32 A	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 frequency / rated value       690 V         operating requency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       600 Hz         Protection class       P         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         pover loss [W] / for rated value of the current / at AC / in       1.8 W	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       690 V         operation class IP       1965         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         pover loss [W] / for rated value of the current / at AC / in hot operating state / per pole       32 A         operational current       32 A	number of poles / note	3	
• 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 voltage       690 V         • at AC / rated value       690 V         operating frequency / rated value       50 Hz         • maximum       50 Hz         for the front       1965         Dissipation       1.8 W         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         current       32 A         operational current / rated value       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         6 kV           operating voltage         6           • 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         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           operational current         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 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       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 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       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	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       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       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	Voltage		
operating voltage     690 V       operating frequency / rated value     690 V       operating frequency / rated value     50 Hz       ominimum     50 Hz       omaximum     60 Hz       Protection class     1065       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	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       IP65         Dissipation       I.8 W         operating state / per pole       32 A         operational current / rated value       32 A         operational current       at 40 °C / rated value	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 / rated value       32 A         operational current       32 A	<ul> <li>at AC / rated value</li> </ul>	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     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       at 40 °C / rated value         • at 40 °C / rated value       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       32 A         operational current       32 A         operational current       32 A	Protection class		
protection class IP / on the front       IP65         Dissipation	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       1.8 W         hot operating state / per pole       1.8 W         Current       32 A         operational current       32 A         operational current       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	power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	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	
	<ul> <li>at 45 °C / rated value</li> </ul>	32 A	

a at E0 °C / rated value	22.4
• 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
• at AC-3 / at 400 V / rated value	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	
special product feature	Can be locked in zero position
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	2
/ attachable / maximum	
number of connectable NO contacts / for auxiliary contacts	4
/ attachable / maximum	
number of connectable CO contacts / for auxiliary contacts	0
/ attachable / maximum	2
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 440 V / by gG fuse / rated value	10 kA
• at 690 V / by gG fuse / rated value	6 kA
let-through current / with closed switch	
• at 240 V / for combination switch + gG fuse /	4.5 kA
maximum	
• at 440 V / for combination switch + gG fuse /	4.5 kA
maximum	
• at 690 V / for combination switch + gG fuse /	5 kA
maximum permissible	
I2t value / with closed switch	
<ul> <li>at 240 V / for combination switch + gG fuse /</li> </ul>	9 kA2.s

maximum	
<ul> <li>at 440 V / for combination switch + gG fuse /</li> </ul>	9 kA2.s
maximum	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul>	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	32 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	50 A
type of fuse / according to UL	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	6
• minimum	14
type of connectable conductor cross-sections / for copper	
conductor	
• solid	1x (2.5 to 16 mm <sup>2</sup> )
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (2.516 mm <sup>2</sup> )
stranded type of connectable conductor cross-sections / for	1x (2.5 to 16 mm <sup>2</sup> )
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
<ul> <li>for auxiliary contacts</li> </ul>	Box terminals
Mechanical Design	
height	60 mm
width	47 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	No
<ul> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> </ul>	No Yes
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul>	No
net weight	200 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	Declaration of Conformity

**Confirmation** 









UK CA

other

**Miscellaneous** 

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=3LD3250-1TK11 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3250-1TK11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3250-1TK11 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







