## SIEMENS

## Data sheet

## 3LD3250-1TL11



Load disconnector 3LD3, lu 32 A Main switch 3-pole + N 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 1OE + 1S

product brand name         SENTRON           product designation         3LD Switch disconnector           design of the product         Main switch           disphay 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	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     4       number of poles     4       electrical endurance (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     680 V       operating frequency / rated value     6 kV       operating roleage     6 80 V       e at AC / rated value     690 V       operating frequency / rated value     6 kV       operating roleage     6 00 V       operating roleage     6 kV       operating frequency / rated value     6 kV       operating rolection NEMA rating     1, 3R, 4X, 12       protection class IP     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       prote	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       knot-operated mechanism, black         type of switch       No         General technical data       number of poles / note         number of poles / note       4         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       6000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       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 requency / rated value       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front <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	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     4       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage / rated value       surge voltage resistance / rated value     690 V       operating frequency / rated value		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       number of poles / note     4       number of poles / note     4       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles) / typical     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage / rated value       insulation voltage / rated value     690 V       operating frequency / maximum     60 NV       operating frequency / rated value     690 V       operation class IP     1, 3R, 4X, 12       protection class IP / on the front     IP65       Dissipation     1.8 W       operational current / rated value	type of switch	front mounted
design of handle       knob-operated mechanism, black         type of the driving mechanism / motor drive       No         General technical data	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       4         number of poles       4         number of poles / note       4         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 / maximum       600 V         surge voltage resistance / rated value       690 V         operating rotage       61 KV         operating rotage       61 KV         operating requency / rated value       690 V         operating rotage       61 KV         operating rotage       61 KV         operating rotage       61 KV         operating frequency / rated value       690 V         operation class IP       IP65         protection class IP       IP65         operating state / per pole       1.8 W         operational current / rated value       32 A <tr< td=""><td>design of handle</td><td>knob-operated mechanism, black</td></tr<>	design of handle	knob-operated mechanism, black
number of poles     4       number of poles / note     4       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     6 800 V       insulation voltage / rated value     690 V       operating voltage resistance / rated value     6 kV       operating voltage     6 80V       • at AC / rated value     690 V       operating frequency / rated value     690 V       operating rotage     • at AC / rated value       • minimum     50 Hz       • maximum     60 Hz       Protection class IP     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       protection class IP     IP65       operating state / per pole     1.8 W       current     32 A       operational current / rated value     32 A       operational current     32 A	type of the driving mechanism / motor drive	No
number of poles / note     4       mechanical service life (switching cycles) / typical     100 000       electrical endurance (switching cycles)     6       • at AC-23 A / at 690 V     6 000       operating frequency / maximum     50 1/h       degree of pollution     3       Voltage     690 V       insulation voltage / rated value     690 V       surge voltage resistance / rated value     690 V       operating frequency / maximum     60 V       operating totage resistance / rated value     690 V       operating frequency / rated value     690 V       operation class IP     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     3	General technical data	
Imechanical service life (switching cycles) / typical       100 000         electrical endurance (switching cycles)       6 000         operating frequency / maximum       50 1/h         degree of pollution       3         Voltage       insulation voltage / rated value         insulation voltage / rated value       690 V         surge voltage resistance / rated value       690 V         operating voltage       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       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       1.8 W         operating state / per pole       32	number of poles	4
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       6 kV         operating voltage       690 V         • at AC / rated value       690 V         operating voltage       6 kV         operating trequency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating requency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       690 V         operating frequency / rated value       600 Hz         • maximum       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       IP65         operating state / per pole       32 A         operational current / rated value       32 A	number of poles / note	4
• at AC-23 A / at 690 V       6 000         operating frequency / maximum       50 1/h         degree of pollution       3 <b>Voitage</b> 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       50 Hz         • maximum       50 Hz         fortection class IP       1, 3R, 4X, 12         protection class IP / on the front       IP65 <b>Dissipation</b> 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 / at 40 °C / 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         690 V           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         IP           power loss [W] / for rated value of the current / at AC / in         1.8 W           operational current / rated value         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       6 kV         • at AC / rated value       690 V         operating frequency / rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP / on the front       IP65         Dissipation       1, 3R, 4X, 12         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       32 A         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 / rated value       32 A	operating frequency / maximum	50 1/h
insulation voltage / rated value       690 V         surge voltage resistance / rated value       6 kV         operating voltage       690 V         • at AC / rated value       690 V         operating frequency / rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       IP65         current       32 A         operational current / rated value       32 A	degree of pollution	3
surge voltage resistance / rated value       6 kV         operating voltage       690 V         operating frequency / rated value       690 V         operating frequency / rated value       60 Hz         • minimum       50 Hz         • maximum       60 Hz         Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation       power loss [W] / for rated value of the current / at AC / in hot operating state / per pole         Current       32 A         operational current / rated value       32 A	Voltage	
operating voltage     690 V       operating frequency / rated value     690 V       operating frequency / rated value     50 Hz       ominimum     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     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       1.8 W         operating state / per pole       32 A         operational current       32 A         operational current       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         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	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 40 °C / rated value       32 A	• at AC / rated value	690 V
maximum 60 Hz      Protection class      protection class IP     protection NEMA rating     protection class IP / on the front     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       operational current / rated value         operational current       32 A         operational current       32 A	• maximum	60 Hz
degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP / on the front       IP65         Dissipation          power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       operational current / rated value         operational current       32 A         operational current       32 A	Protection class	
protection class IP / on the front       IP65         Dissipation       IP65         power loss [W] / for rated value of the current / at AC / in hot operating state / per pole       1.8 W         Current       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          operational current / rated value       32 A         operational current       32 A         • at 40 °C / rated value       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     32 A	Current	
• at 40 °C / rated value 32 A	operational current / rated value	32 A
	operational current	
• at 45 °C / rated value 32 A	• at 40 °C / rated value	32 A
	• at 45 °C / rated value	32 A

a at 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	1x (2.5 to 16 mm <sup>2</sup> )
type of connectable conductor cross-sections / for auxiliary contacts • solid	$2 \times (0.75 - 2.5 \text{ mm}^2) = 1 \times 4 \text{ mm}^2$
<ul> <li>finely stranded / with core end processing</li> </ul>	2x (0.75 2.5 mm²), 1x 4 mm² 2x (0.75 1.5 mm²), 1x 2.5 mm²
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	60 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
4-hole front mounting     front mounting with control attachment	No
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul>	Yes 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









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=3LD3250-1TL11 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3250-1TL11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3250-1TL11 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







