## SIEMENS

## Data sheet

## 3LD3310-1TL05



Load disconnector 3LD3, lu 40 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400 V 18.5 kW Installation in distribution boards, Basic switch without Knob-operated mechanism with auxiliary switch 1OE + 1S

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	Switch	
display version / for switch position indicator manual operation	1 ON - 0 OFF	
type of switch	DIN-rail mounting	
design of the actuating element	Without handle	
design of handle	without	
General technical data		
number of poles	4	
number of poles / note	4	
mechanical service life (switching cycles) / typical	100 000	
electrical endurance (switching cycles)		
• at AC-23 A / at 690 V	6 000	
operating frequency / maximum	50 1/h	
degree of pollution	3	
Voltage		
insulation voltage / rated value	690 V	
surge voltage resistance / rated value	6 kV	
operating voltage		
<ul> <li>at AC / rated value</li> </ul>	690 V	
operating frequency / rated value		
• minimum	50 Hz	
• maximum	60 Hz	
Protection class		
protection class IP	IP20	
protection class IP / on the front	IP20	
Dissipation		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.5 W	
Current		
operational current / rated value	40 A	
operational current		
• at 40 °C / rated value	40 A	
<ul> <li>at 45 °C / rated value</li> </ul>	40 A	
<ul> <li>at 50 °C / rated value</li> </ul>	40 A	
<ul> <li>at 55 °C / rated value</li> </ul>	40 A	
<ul> <li>at AC / rated value</li> </ul>	40 A	

Main circuit	
operational current	
at AC-21 / at 690 V / rated value	40 A
• at AC-21 A / at 240 V / rated value	40 A
• at AC-21 A / at 400 V / rated value	40 A
• at AC-21 A / at 440 V / rated value	40 A
• at AC-23 A / at 400 V / rated value	36 A
operating power	
at AC-23 A / at 240 V / rated value	7.5 kW
• at AC-23 A / at 400 V / rated value	19 kW
• at AC-23 A / at 440 V / rated value	15 kW
• at AC-23 A / at 690 V / rated value	15 kW
• at AC-3 / at 240 V / rated value	7.5 kW
• at AC-3 / at 400 V / rated value	12 kW
• at AC-3 / at 690 V / rated value	11.5 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 contacts / at AC / maximum	10 A
insulation voltage / of the auxiliary switch / rated value	500 V
Suitability	
suitability for use	Vaa
main switch     switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch     maintenance/renair switch	Yes
maintenance/repair switch	Yes
Product details	Decie Cwitch
special product feature	Basic Switch
product feature / can be locked into OFF position	No
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 conflicts contacts	
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
	4 0
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts	
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse	
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse protection	0
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	0 10 kA
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value	0
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	0 10 kA
/ attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse /	0 10 kA 6 kA
<ul> <li>/ attachable / maximum</li> <li>number of connectable CO contacts / for auxiliary contacts / attachable / maximum</li> <li>Short circuit</li> <li>conditional short-circuit current / with line-side fuse protection <ul> <li>at 440 V / by gG fuse / rated value</li> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>let-through current / with closed switch <ul> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse /</li> </ul> </li> </ul>	0 10 kA 6 kA 5 kA
<ul> <li>/ attachable / maximum</li> <li>number of connectable CO contacts / for auxiliary contacts / attachable / maximum</li> <li>Short circuit</li> <li>conditional short-circuit current / with line-side fuse protection <ul> <li>at 440 V / by gG fuse / rated value</li> <li>at 690 V / by gG fuse / rated value</li> </ul> </li> <li>let-through current / with closed switch <ul> <li>at 240 V / for combination switch + gG fuse / maximum</li> <li>at 440 V / for combination switch + gG fuse / maximum</li> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul> </li> </ul>	0 10 kA 6 kA 5 kA 5 kA
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<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 40 A
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	40 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	40 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 mm²)
• stranded	1x (2.5 to 16 mm <sup>2</sup> )
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 mm²), 1x 2.5 mm²
• stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	have been in all
for main current circuit	box terminal Box terminals
for auxiliary contacts Mechanical Design	Box terminais
	60 mm
height width	60 mm 60 mm
depth	64 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
4-hole front mounting	No
<ul> <li>front mounting with central attachment</li> </ul>	No
rail mounting	Yes
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) (Difference of the confirmation)	EUL CE AR
	EG-Konf.

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=3LD3310-1TL05

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3310-1TL05

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

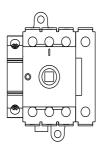
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3310-1TL05

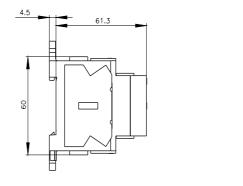
**CAx-Online-Generator** 

http://www.siemens.com/cax

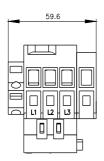
Tender specifications

http://www.siemens.com/specifications









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