## **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			
design of the actuating element	Without handle			
design of handle	without			
General technical data				
number of poles	4			
number of poles / note	4			
type of device	fixed mounting			
type of switch	DIN-rail mounting			
mechanical service life (switching cycles) / typical	100 000			
electrical endurance (switching cycles)				
• at AC-23 A / at 690 V	6 000			
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	15 kA2.s			
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	15 kA2.s			
operating frequency / maximum	50 1/h			
Voltage				
insulation voltage / rated value	690 V			
surge voltage resistance / rated value	6 kV			
Protection class				
protection class IP	IP20			
protection class IP / on the front	IP20			
Dissipation				
power loss [W]				
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	2.5 W			
<ul><li>per conductor / typical</li></ul>	2 W			
Current				
operational current				
<ul> <li>at 40 °C / rated value</li> </ul>	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			
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	36 A			

• at AC-21 / at 690 V / rated value	40 A
• at AC-21 / at 690 V / rated value	40 A
• at AC-21 A / at 240 V / rated value	40 A
operational current / of upstream fuse / rated value	40 A
let-through current / with closed switch	70 A
at 440 V / for combination switch + gG fuse / maximum	5 kA
• at 690 V / for combination switch + gG fuse /	5 kA
maximum permissible	
Main circuit	
operating power	
<ul><li>at AC-23 A / at 240 V / rated value</li></ul>	7.5 kW
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	19 kW
<ul><li>at AC-23 A / at 440 V / rated value</li></ul>	15 kW
<ul><li>at AC-23 A / at 690 V / rated value</li></ul>	15 kW
<ul><li>at AC-3 / at 240 V / rated value</li></ul>	7.5 kW
<ul><li>at AC-3 / at 400 V / rated value</li></ul>	12 kW
<ul><li>at AC-3 / at 690 V / rated value</li></ul>	11.5 kW
operational current / rated value	40 A
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
-	500 V
insulation voltage / of the auxiliary switch / rated value	300 V
Suitability	
suitability for use	v.
main switch	Yes
switch disconnector	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul><li>safety switch</li></ul>	Yes
maintenance/repair switch	Yes
Product details	
product feature	
can be locked into OFF position	No
special product feature	Basic Switch
product extension / optional	
<ul> <li>motor drive</li> </ul>	No
<ul> <li>voltage trigger</li> </ul>	No
Short circuit	
conditional short-circuit current / with line-side fuse	
protection	
<ul> <li>at 440 V / by gG fuse / rated value</li> </ul>	10 kA
at 690 V / by gG fuse / rated value	6 kA
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	40 A
	40 A 600 V
60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL	600 V
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 600 V / according to UL	600 V 20
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value  short-time withstand current (SCCR) / at 600 V / according	600 V 20 20
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value  short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1  continuous current / of upstream fuse / according to UL /	600 V 20 20 5 kA
60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1 continuous current / of upstream fuse / according to UL / rated value type of fuse / according to UL	600 V 20 20 5 kA 50 A
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value  active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value  short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1  continuous current / of upstream fuse / according to UL / rated value	600 V 20 20 5 kA 50 A

/ attachable / maximum			
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4		
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0		
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 mm²)		
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (2.516 mm²)		
• stranded	1x (2.5 to 16 mm²)		
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 m	nm²	
type of electrical connection			
<ul> <li>for main current circuit</li> </ul>	box terminal		
<ul> <li>for auxiliary contacts</li> </ul>	Box terminals		
Requirements			
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		
Mechanical Design			
height	60 mm		
width	60 mm		
depth	64 mm		
fastening method	Built-in unit fixed-mounted version		
fastening method			
<ul> <li>4-hole front mounting</li> </ul>	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		
General Product Approval		Declaration of Conformity	



Confirmation









other

Miscellaneous

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

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

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

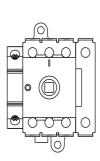
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> en.aspx?mlfb=3LD3310-1TL05

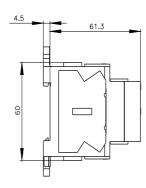
**CAx-Online-Generator** 

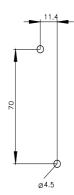
http://www.siemens.com/cax

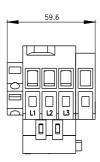
Tender specifications

http://www.siemens.com/specifications









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