## **SIEMENS**

Data sheet 3LD3010-0TK05



Load disconnector 3LD3, Iu 16 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 7.5kW Installation in distribution boards, Basic switch without Knob-operated mechanism

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			
type of the driving mechanism / motor drive	No			
General technical data				
number of poles	3			
number of poles / note	3			
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	3 kA2.s			
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 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>	0.5 W			
per conductor / typical	1 W			
Current				
operational current				
<ul><li>at 40 °C / rated value</li></ul>	16 A			
<ul> <li>at 45 °C / rated value</li> </ul>	16 A			
• at 50 °C / rated value	16 A			
• at 55 °C / rated value	16 A			
at AC / rated value	16 A			

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• at AC-23 A / at 400 V / rated value	16 A
at AC-21 / at 690 V / rated value	16 A
at AC-21 A / at 240 V / rated value	16 A
at AC-21 A / at 440 V / rated value	16 A
operational current / of upstream fuse / rated value	16 A
let-through current / with closed switch	
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	3 kA
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	3 kA
Main circuit	
operating power	
at AC-23 A / at 240 V / rated value	3 kW
at AC-23 A / at 400 V / rated value	8 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
at AC-23 A / at 690 V / rated value	8 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 240 V / rated value	6 kW
at AC-3 / at 690 V / rated value	5.5 kW
operational current / rated value	16 A
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
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
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	160
product feature	N.
can be locked into OFF position	No Service Ser
special product feature	Basic Switch
product extension / optional	
<ul> <li>motor drive</li> </ul>	No
voltage trigger	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	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
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 /	50 A
rated value	RK5
	RK5

number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2		
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			
<ul><li>maximum</li></ul>	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 mm²		
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: 20 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	36 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=3LD3010-0TK05

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3010-0TK05

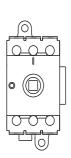
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> en.aspx?mlfb=3LD3010-0TK05

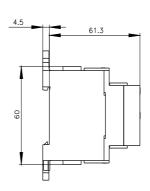
**CAx-Online-Generator** 

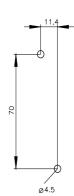
http://www.siemens.com/cax

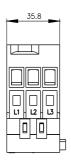
Tender specifications

http://www.siemens.com/specifications









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