## **SIEMENS**

Data sheet 3LD2418-1TL11



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu=250 A, Operating power / at AC-23 A at 400 V: 132 kW, floor mounting with door coupling, knob-operated mechanism, black, 4-hole mounting of the handle

Model			
product brand name	SENTRON		
product designation	3LD Switch disconnector		
design of the product	Main switch		
display version / for switch position indicator manual operation	1 ON - 0 OFF		
design of the actuating element	selector switch		
design of handle	knob-operated mechanism, black		
type of the driving mechanism / motor drive	No		
General technical data			
number of poles	4		
type of device	fixed mounting		
type of switch	Floor mounting with door coupling		
size of switch disconnector	5		
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	557 kA2.s		
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	557 kA2.s		
operating frequency / maximum	50 1/h		
Voltage			
insulation voltage / rated value	690 V		
surge voltage resistance / rated value	8 kV		
operational current / at AC / rated value	250 A		
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]			
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	36 W		
<ul><li>per conductor / typical</li></ul>	36 W		
Current			
operational current			
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	224 A		

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• at AC-21 / at 690 V / rated value	250 A
• at AC-21 A / at 240 V / rated value	250 A
at AC-21 A / at 440 V / rated value	250 A
operational current / of upstream fuse / rated value	250 A
let-through current / with closed switch  • at 440 V / for combination switch + gG fuse /	15 kA
maximum	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	15 kA
Main circuit	
operating power	
<ul><li>at AC-23 A / at 240 V / rated value</li></ul>	75 kW
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	132 kW
<ul><li>at AC-23 A / at 440 V / rated value</li></ul>	132 kW
<ul><li>at AC-23 A / at 690 V / rated value</li></ul>	55 kW
<ul><li>at AC-3 / at 240 V / rated value</li></ul>	55 kW
<ul><li>at AC-3 / at 400 V / rated value</li></ul>	110 kW
<ul><li>at AC-3 / at 690 V / rated value</li></ul>	45 kW
operational current / rated value	250 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
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	No
safety switch	Yes
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	black
Product details	
	Voo
product function / can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	6 mm
product extension / optional  • motor drive	No
voltage trigger	No
	INO
Short circuit conditional short-circuit current / with line-side fuse	
protection	
at 690 V / by gG fuse / rated value	50 kA
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	250 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	100
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	75
short-time withstand current (SCCR) / at 600 V / according to UL 508/UL 60947-4-1	10 kA
continuous current / of upstream fuse / according to UL /	200 A

rated value					
type of fuse / according to UL	RK5				
Number	1110				
number of connectable NC contacts / for auxiliary contacts	2				
/ attachable / maximum number of connectable NO contacts / for auxiliary contacts	3				
/ attachable / maximum					
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0				
Connections					
AWG number / as coded connectable conductor cross section / solid					
• minimum	1				
• maximum	4/0				
type of connectable conductor cross-sections / for copper conductor					
• solid	1x (16185mm²)				
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (16150mm²)				
stranded	1x (16185mm²)				
type of connectable conductor cross-sections / for auxiliary contacts					
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)				
• finely stranded / with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²				
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)				
type of electrical connection					
for main current circuit	box terminal				
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals				
Requirements					
design of the fuse link					
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 250 A				
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	fuse gL/gG: 10 A				
Mechanical Design					
height	169 mm				
width	112 mm				
depth	94 mm				
fastening method	Built-in unit fixed-mounted version				
fastening method					
<ul> <li>4-hole front mounting</li> </ul>	Yes				
<ul> <li>front mounting with central attachment</li> </ul>	No				
rail mounting	No				
net weight	3 264 g				
Environmental conditions					
ambient temperature / during operation					
• minimum	-25 °C				
maximum	55 °C				
ambient temperature / during storage / minimum	-25 °C				
Certificates					
reference code					
• acc. to DIN EN 61346-2	S				
• acc. to IEC 81346-2	SF				
General Product Approval		Declaration of Conformity	Test Certificates		











Type Test
Certificates/Test
Report

**Test Certificates** 

other

Special Test Certificate

Environmental Confirmations

## 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=3LD2418-1TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-1TL11

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2418-1TL11

**Tender specifications** 

http://www.siemens.com/specifications











