## **SIEMENS**

Data sheet 3LD2418-1TL13

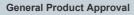


SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, lu=250 A, operating power / at AC-23 A 400 V: 132 kW, floor mounting with door coupling, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	Floor mounting with door coupling
design of the actuating element	selector switch
color of the actuating element	red
design of handle	knob-operated mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	4
size of switch disconnector	5
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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	8 kV
operating voltage	
at AC rated value	690 V
operating frequency rated value	
• 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	
power loss [W] for rated value of the current at AC in hot operating state per pole	36 W
Main circuit	
operational current	
• 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 400 V rated value	250 A
• at AC-21 A at 440 V rated value	250 A
<ul> <li>at AC-23 A at 400 V rated value</li> </ul>	224 A

operating power	
• at AC-23 A at 240 V rated value	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
at AC-3 at 690 V rated value	45 kW
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
Suitability	
suitability for use	
main switch	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
safety switch	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
<ul> <li>motor drive</li> </ul>	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	2
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 6 mm
Short circuit	
conditional short-circuit current with line-side fuse protection	
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	15 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	15 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	15 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	557 kA2.s
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	557 kA2.s
at 690 V for combination switch + gG fuse maximum	557 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 250 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	250 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1	250 A
rated value operating voltage at AC at 50/60 Hz according to UL 508/UL	600 V
60947-4-1 rated value  active power [hp] at AC at 480 V according to UL 508/UL 60947-	100
4-1 rated value  active power [hp] at AC at 600 V according to UL 508/UL 60947-	75
4-1 rated value short-time withstand current (SCCR) at 600 V according to UL	10 kA
508/UL 60947-4-1  continuous current of upstream fuse according to UL rated value	200 A

type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	1
•	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
Mechanical Design	
height	169 mm
width	112 mm
depth	94 mm
type of device	fixed mounting
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	3 351 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	







Confirmation







other Environment

<u>Miscellaneous</u> <u>Confirmation</u> <u>Environmental Confirmations</u> <u>Firmations</u> <u>Environmental Confirmations</u>

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3LD2418-1TL13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) <a href="https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-1TL13">https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-1TL13</a>

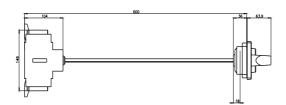
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax">http://www.automation.siemens.com/bilddb/cax</a> en.aspx?mlfb=3LD2418-1TL13

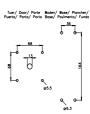
CAx-Online-Generator

http://www.siemens.com/cax

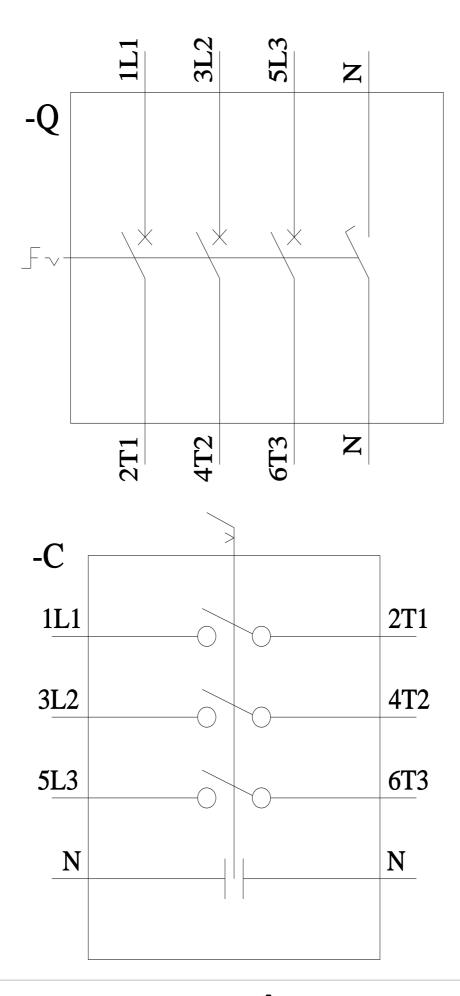
Tender specifications
http://www.siemens.com/specifications











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