SIEMENS

Data sheet 3LD2418-3VK11



SENTRON, Switch disconnector 3LD, main switch, 6-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	Switch disconnector	
design of the product	Main 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	black	
design of handle	knob-operated mechanism, black	
type of the driving mechanism motor drive	No	
General technical data		
number of poles	6	
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	

operating power all AC-29 A all 240 V raided value 55 kW all AC-3 all 240 V raided value 55 kW all AC-3 all 240 V raided value 55 kW all AC-3 all 240 V raided value 55 kW all AC-3 all 240 V raided value 55 kW all AC-3 all 240 V raided value 55 kW all AC-3 all 240 V raided value 45 kW Auxiliary circuit purpher of CD contacts for auxiliary contacts 0 cumber of NC contacts for auxiliary contacts 0 continuous current of the auxiliary contacts 0 continuous current of the auxiliary contact raided value 55 kW 56 cutting the contact of the auxiliary contacts 66 cutting the contact of the auxiliary contacts 67 cutting the contact of the auxiliary contact raided value 56 vice auxiliary for use avint-of the auxiliary contact raided value 56 vice auxiliary for use avint-of the auxiliary contact raided value 57 cutting the contact of the auxiliary contact raided value 58 vice auxiliary for use avint-of the auxiliary contact raided value 58 vice auxiliary for use avint-of the auxiliary contact auxiliary conta	at AC-23 A at 400 V rated value	224 A
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Detail of the fuse link	• at 440 V for combination switch + gG fuse maximum	15 kA
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 557 kA2.s at 690 V for combination switch + gG fuse maximum 557 kA2.s design of the fuse link af for short-circuit protection of the main circuit required fuse gL/gG: 250 A for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 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 75		15 kA
at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 557 kA2.s design of the fuse link at 690 V for short-circuit protection of the main circuit required at 690 V for short-circuit protection of the main circuit required at 690 V for short-circuit protection of the main circuit required at 690 V for short-circuit protection of the auxiliary switch required at 690 V for short-circuit protection of the auxiliary switch required at 690 V gG: 250 A according UL according UL according UL 508/UL 60947-4-1 active power [hp] at AC at 50/60 Hz according to UL 508/UL active power [hp] at AC at 600 V according to UL 508/UL 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	I2t value with closed switch	
at 690 V for combination switch + gG fuse maximum be for short-circuit protection of the main circuit required fuse gL/gG: 250 A for short-circuit protection of the auxiliary switch required poperational current of upstream fuse rated value coperational current at AC according to UL 508/UL 60947-4-1 rated value coperating voltage at AC at 50/60 Hz according to UL 508/UL foo47-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL foo47-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL foo47-4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL foo47-4-1 rated value foo47-4-1 rated value foo47-4-1 rated value foo47-4-1 rated value foo57 kA2.s fuse gL/gG: 250 A fuse gL/gG: 250 A fuse gL/gG: 250 A foo6	• at 240 V for combination switch + gG fuse maximum	557 kA2.s
design of the fuse link • for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 250 A according UL operational current at AC according to UL 508/UL 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 75	• at 440 V for combination switch + gG fuse maximum	557 kA2.s
• for short-circuit protection of the main circuit required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 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 75	• at 690 V for combination switch + gG fuse maximum	557 kA2.s
	design of the fuse link	
operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 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 75	• for short-circuit protection of the main circuit required	fuse gL/gG: 250 A
according UL operational current at AC according to UL 508/UL 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 75	for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current at AC according to UL 508/UL 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 75	operational current of upstream fuse rated value	250 A
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 75	according UL	
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 75		250 A
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value 75		600 V
60947-4-1 rated value		100
short-time withstand current (SCCR) at 600 V according to 10 kA		75
	short-time withstand current (SCCR) at 600 V according to	10 kA

UL 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)
 finely stranded with core end processing 	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
 for auxiliary contacts 	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	
 4-hole front mounting 	Yes
 front mounting with central attachment 	No
• rail mounting	No
net weight	4 530 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	

General Product Approval







Confirmation





other Environment

Miscellaneous Confirmation **Environmental Con-Environmental Con**firmations <u>firmations</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=3LD2418-3VK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-3VK11

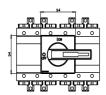
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2418-3VK11

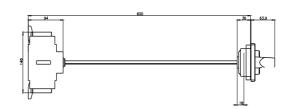
CAx-Online-Generator

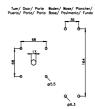
http://www.siemens.com/cax

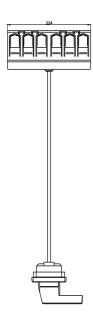
Tender specifications

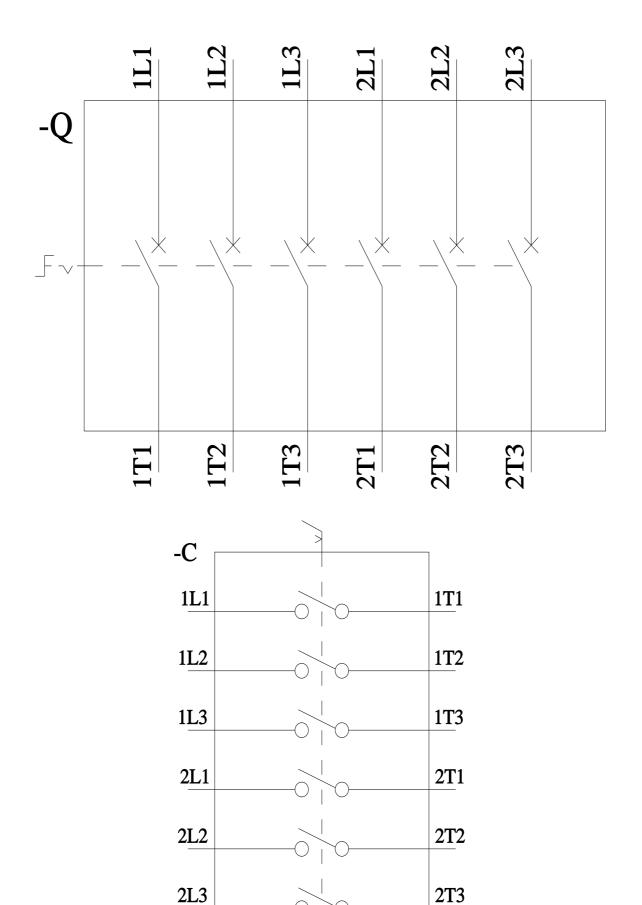
http://www.siemens.com/specifications











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