



SETRON, Switch disconnecter 3LD, main switch, 3-pole, $I_n=250$ 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	SETRON
product designation	Switch disconnecter
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	3
size of switch disconnecter	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

• at AC-23 A at 400 V rated value	224 A
operating power	
• at AC-23 A at 240 V rated value	75 kW
• at AC-23 A at 400 V rated value	132 kW
• at AC-23 A at 440 V rated value	132 kW
• at AC-23 A at 690 V rated value	55 kW
• at AC-3 at 240 V rated value	55 kW
• at AC-3 at 400 V rated value	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
insulation voltage of the auxiliary switch rated value	500 V
Suitability	
suitability for use main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
• motor drive	No
• voltage trigger	No
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	5
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	
• at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	15 kA
• at 440 V for combination switch + gG fuse maximum	15 kA
• at 690 V for combination switch + gG fuse maximum permissible	15 kA
I²t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	557 kA ² .s
• at 440 V for combination switch + gG fuse maximum	557 kA ² .s
• at 690 V for combination switch + gG fuse maximum	557 kA ² .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 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	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		
• solid • finely stranded with core end processing • stranded	1x (16 ... 185mm ²) 1x (16 ... 150mm ²) 1x (16 ... 185mm ²)		
type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)		
type of electrical connection • for main current circuit • for auxiliary contacts	box terminal 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 • front mounting with central attachment • rail mounting	Yes No No		
net weight	2 761 g		
Environmental conditions			
ambient temperature during operation • minimum • maximum	-25 °C 55 °C		
ambient temperature during storage • minimum • maximum	-25 °C 55 °C		
Approvals Certificates			
<table> <tr> <td>General Product Approval</td><td>other</td></tr> </table>		General Product Approval	other
General Product Approval	other		



[Confirmation](#)

other	Environment
Miscellaneous	Environmental Confirmations
	Environmental Confirmations

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

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2418-0TK11>

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2418-0TK11>

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2418-0TK11

<http://www.siemens.com/cax>

<http://www.siemens.com/specifications>





