

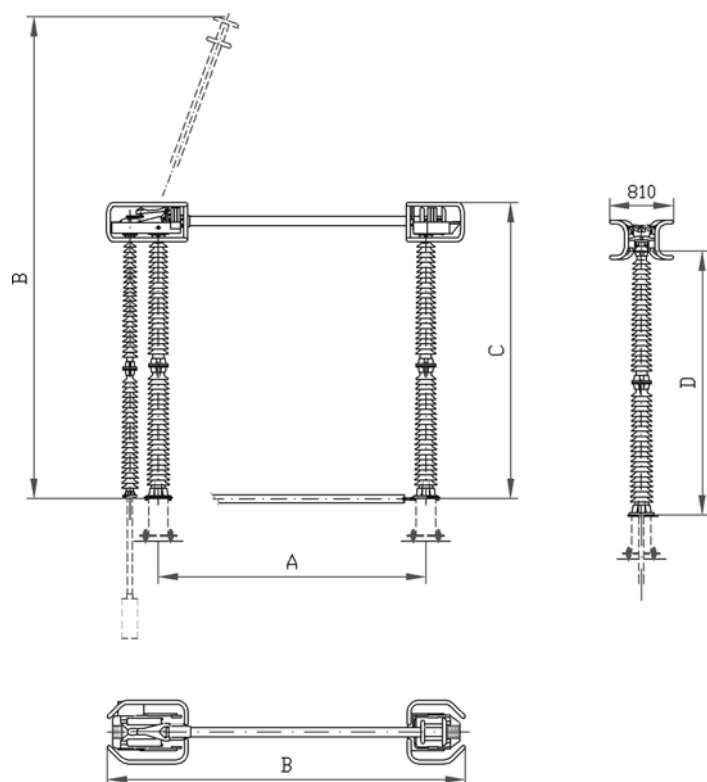
Vertical Break Disconnectors types ONS 245 and ONS 420

Disconnectors type ONS... are vertical-break isolating switches designed for operation in outdoor substations

Disconnectors are used for metallic isolation of systems by creating in open position a visible isolating distance

They may also be fitted with one or two earthing switches type TEC for 245KV or TEB for 420kV.

The disconnectors are designed according to the publication IEC 62271-102; IEC 62271-1 and most other national regulations.



Dimension			ONS 245	ONS 420	
A	Support insulator distance	mm	2650	2780	
B	Height of post and rotary insulators	mm	5220	6730	6930
C	Total height of disconnector in close position	mm	2840	3545	3745
D	Height of post and rotary insulators	mm	2300	3150	3350
Weight of disconnector with insulators			390	1090	1150
Weight of build on earthing switch (on one pole)			50	75	

Technical data of disconnecter types ONS 245 and ONS 420

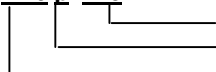
Disconnector		ONS 245	ONS 420
Rated voltage	kV	245	420
Rated normal current			
- type p	A	2500	2500
- type pc	A	3150	3150
- type q	A	4000	4000
Rated peak withstand current of disconnector and earthing switch	kA	100 / 125 / 160	100 / 125 / 160
Rated short-time withstand current (r.m.s.)	kA	40 / 50 / 63	40 / 50 / 63
Rated power-frequency withstand voltage 50 Hz, 1min to earth and between poles across open switching device	kV kV	460 530	520 610
Rated lightning impulse withstand voltage 1,2 / 50µs to earth and between poles across open switching device	kV kV	1050 1200	1425 1425(+240)*
Rated switching impulse withstand voltage 250/2500 µs to earth and between poles across open switching device	kV kV	- -	1050 900(+345)
Discharge inception voltage	kV	>160	>270
Radio interference voltage	µV	<2500	<2500
3- phase breaking capacity inductive / capacitive	A	1,5	1
Bus-transfer switching ability**	A / V	1600 / 200	1600 / 300
Inducted current switching ability class A ** for electromagnetic coupling for electrostatic coupling	A / kV A / kV	80 / 1,4 1,25 / 5	80 / 2 1,25 / 5
Insulator design: minimum failing load overall height	kN mm	4,0-6,0-8,0 2300	8,0-10,0 3150 / 3350
Admissible mechanical terminal load: static and dynamic static portion	kN kN	3,2-5,1-6,0 1,5-2,5-2,5	5,1-6,0 1,5-1,5

* Values in brackets are peak values of power frequency voltage applied to the opposite terminal

** As an option

Type designation is complemented by the data for rated current (p - 2500A; pc - 3150A; q -4000A) and peak withstand current.

Example: **ONS 420 p 125**



peak withstand current of 125 kA
rated current 2500 A
rated voltage 420 kV

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