

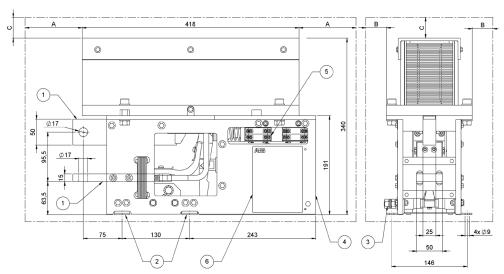
TECHNICAL DATA SHEET

High speed bi-directional circuit breaker for DC applicationsDCBreak 900 V DCBreak 1800 V

	DCBreak 915	DCBreak 1815	
Main circuit			
Rated operational voltage (Ue)	900 V	1800 V	
Rated insulation voltage	2300 V	2300 V	
Rated impulse withstand voltage	18 kV	18 kV	
Rated operational current (Tamb =+40°C)	1500 A	1500 A	
Conventional free air thermal current (Tamb =+40°C)	1500 A	1500 A	
Rated short-circuit making and breaking capacity	30 kA	30 kA	
Rated time constant T1	30 kA/0 ms	17 kA/0 ms	
Rated time constant T2	30 kA/15 ms	30 kA/15 ms	
Rated time constant T3	30 kA/50 ms	30 kA/40 ms	
Rated time constant T4	30 kA/150 ms	30 kA/100 ms	
Operational performance capability	C3	C3	
Direct over-current release	0.9 - 1.3 kA	0.9 - 1.3 kA	
	1.3 - 1.8 kA	1.3 - 1.8 kA	
	1.8 - 3.6 kA	1.8 - 3.6 kA	
Peak arc voltage x Ue	2.5	2.5	
Power frequency withstand voltage (50 Hz, 1 min)			
Across main contacts (open)	6.6 kV	6.6 kV	
Main circuit (closed) to earth and control circuit	6.6 kV	6.6 kV	
Low voltages circuit to earth	1.5 kV	1.5 kV	
Standard applied	IEC 60077-3 and IEC 61373	IEC 60077-3 and IEC 61373	
Control circuit			
Nominal voltage	24 / 36 / 48 / 72 / 110 V	24 / 36 / 48 / 72 / 110 V	
Nominal closing power (Tamb=+20°C)	1000 W	1000 W	
Nominal holding power (Tamb=+20°C)	10 W	10 W	
Control type	Holding resistance (not included)	Holding resistance (not included)	
Auxiliary contacts circuit			
Number of standard contacts	2 NO / 2 NC	2 NO / 2 NC	
	4 NO / 4 NC	4 NO / 4 NC	
	6 NO / 6 NC	6 NO / 6 NC	
	8 NO / 8 NC	8 NO / 8 NC	
Contact material	Hard Silver	Hard Silver	
Rated voltage (potential free contacts)	24 to 110 V	24 to 110 V	
Rated current	10 A	10 A	
Maximum breaking current			
Ohmic load at 110 V DC	1 A	1 A	
Inductive load = 15 ms at 110 V DC	0.3 A	0.3 A	
Minimum let-through current at 24 V DC 10 mA	10 mA	10 mA	
Operating conditions			
Ambient temperature	-25 to 70 °C	-25 to 70 °C	
Minimum mechanical durability	200 000 operations	200 000 operations	
Mechanical lifetime	500 000 operations	500 000 operations	
Altitude max	1400 m	1400 m	
Humidity max	95%	95%	
Pollution degree	PD3	PD3	

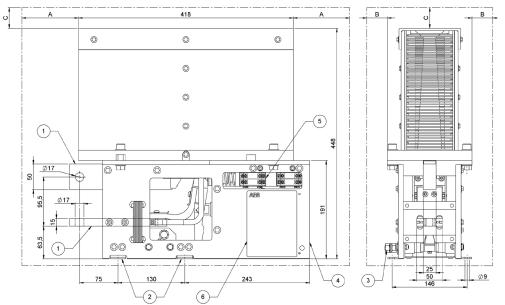
Minimum flashover distance		А	В	С
	DCBreak 900 V			
	to insulated wall	90	50	30
	to earth (metal wall)	300	100	150
	DCBreak 1800 V			
	to insulated wall	90	50	30
	to earth (metal wall)	300	100	150

Main dimensions



DCBreak 915

- APTION
 Main Connections
 Fixing points
 Earthing connection point
 Actuator feeding point
 Auxilary switches
 Adhesive nameplate
 Aluminium nameplate (on demand)



DCBreak 1815

- CAPTION
 1 Main Connections
 2 Fixing points
 3 Earthing connection point
 4 Actuator feeding point
 5 Auxiliary switches
 6 Adhesive nameplate
 7 Aluminium nameplate (on demand)

	DCBreak 915	DCBreak 1815
Circuit breaker weight (kg)	28	38