

Outdoor tilt disconnect switch

IEC 62271-102 standard compliant

TYPE SBE

Ur : 24 to 72,5 kV - BIL 125 to 325 kV - Ir ≤ 6300 A

Ik ≤ 63 kA - tk : 3s - Ip ≤ 164 kA



Technical description

- Air disconnect switch, vertical-break moved by insulated transmission rod
- Contacts at breaking point and at hinge contact
- Tangential contact lines between profiled stationery part and striped end of profiled switch current pad element. Contact Pressure insured by springs.
- Current path elements made of continuous spacered copper flat bar profiles.
- Hinge stainless-steel axis in PTFE ring bearings housed in the current path tilting blades.
- Base frame support made of formed hot galvanized steel sheet.
- Installation can be either horizontally, or vertically, or bottom-up installed.

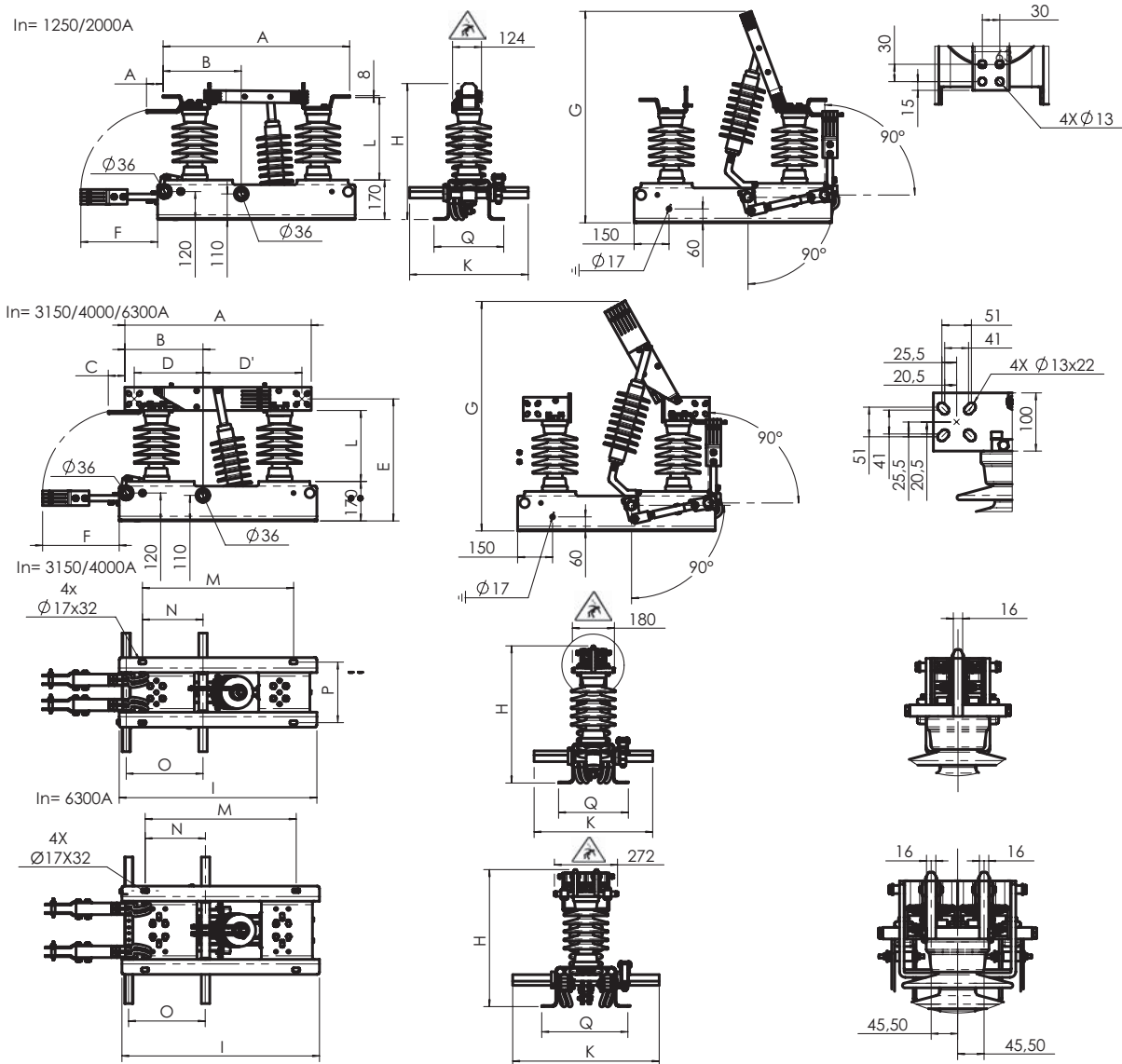
Available choices

- Post insulators
 - Standard: brown glazed as per IEC 273 C6 (6 kN) - Pollution grade 25 mm / kV
 - Upon request: Pollution grade 31 mm/kV or as per ANSI (TR)
- Primary terminals
 - Standard:
 - for 1250 & 2000A horizontal bare copper pad
 - for 3150A, 4000A & 6300A vertical bare copper pad
 - Upon request:
 - tin plated or silver plated copper pad
 - horizontal pad for 3150A, 4000A & 6300A
- Operating drives
 - Group operated or single pole operated
 - Both manual and motor operation are available (see dedicated catalogues)
- Associated earthing switch
 - Ik & tk standard same as disconnecter
 - Standard installation: at hinge side
 - Upon request: at stationery side or at both sides
- Disconnecter and earthing switch interlocking
- Earthing switch operating drives
 - Mechanical system fully integrated
 - Group operated or single pole operated
 - Both manual and motor operation are available (see dedicated catalogues)
- Seismic withstand
- Ice operation
- Mechanical endurance
 - Standard: up to 0,2 g (higher values upon request)
- Small current breaking capacity
 - Standard: up to 10 mm (20 mm upon request)
 - Standard: 2000 operations (open & close) (higher values upon request)
 - Standard: 0,5 A (for higher values see options hereafter)

Optional

- Rated voltage: Ur 17,5 kV (BIL 95 kV) - 38 kV (BIL 200 kV).
- Making and breaking capacity for bus-transfer currents (see dedicated catalogues) as per IEC 62271-102 Annex B.
- Breaking capacity for capacitive and inductive currents (see dedicated catalogue). Breaking device for 6A under Ur.
- D.S. & E.S. interlocking with other apparatuses: Using either combined key lock system, electro-mechanical system (coils), or electrical (relays).
- E.S. automatically operated with disconnecter by D.S. operating drive.

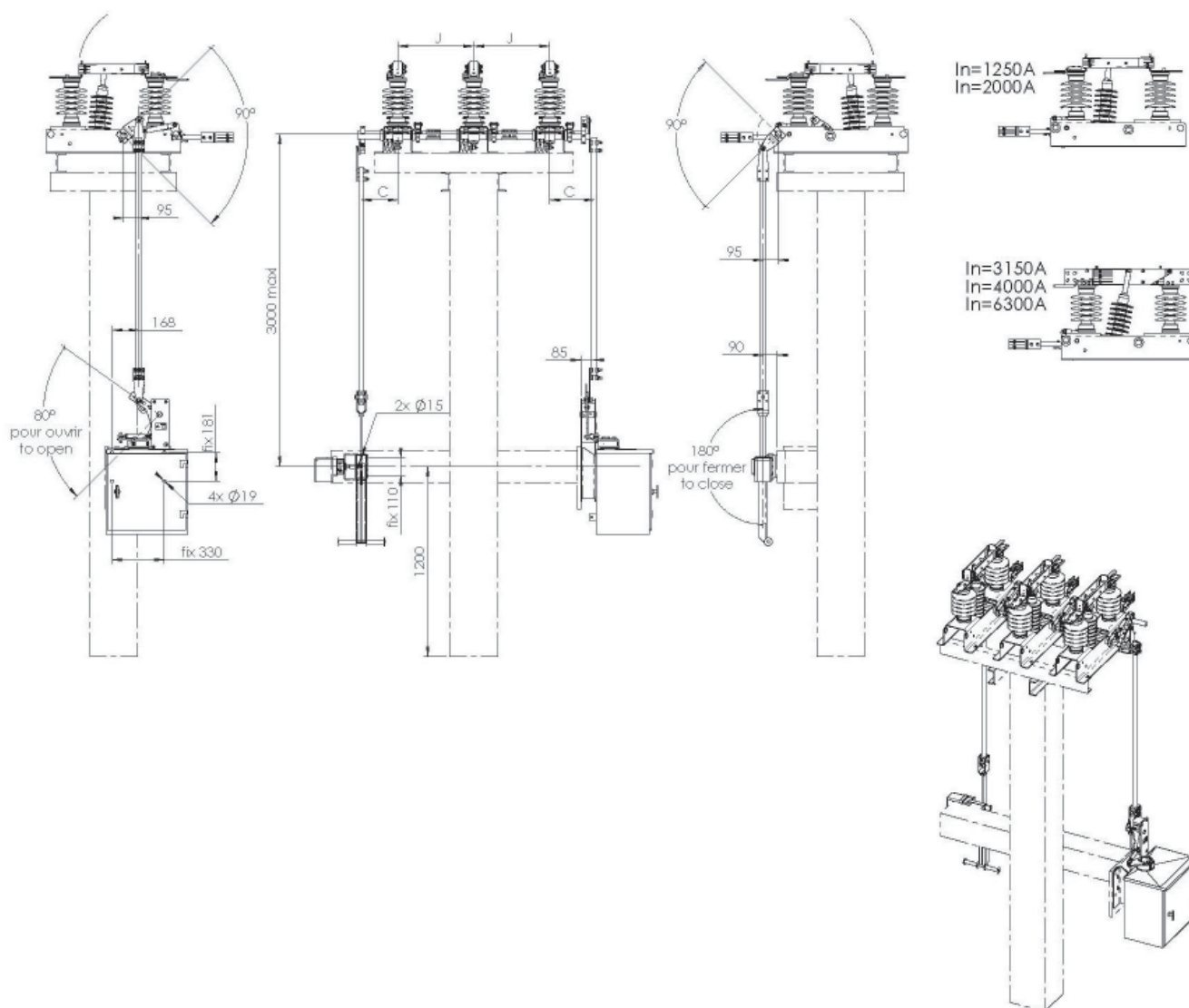
OUTDOOR TILT DISCONNECT SWITCH TYPE SBE - Ur: 24 to 72,5 kV - Outline drawing



Type	Rated voltage Ur	Rated current Ir	Ik tk 1 sec. 3 sec. upon request	A	B	C	D	D'	E	F	G	H	I	J	K	L	M	N	O	P	Q	Weight (Kg)		
				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	DS only	DS with ES
SBE OUTDOOR TILT DISCONNECT SWITCH	24 kV	1250A	31,5 kA	800	335	70	/	/	/	330	910	585	850	510	510	355	650	260	330	260	300	46	56	
		2000A	31,5 kA	800	335	70	/	/	/	330	915	585	850	510	510	355	650	260	330	260	300	47	57	
		3150A	63 kA	800	335	70	295	425	525	330	990	590	850	510	510	305	650	260	330	260	300	55	65	
		4000A	63 kA	800	335	70	295	425	525	330	990	590	850	510	510	305	650	260	330	260	300	57	67	
		6300A	63 kA	800	335	70	295	425	525	330	990	590	850	630	630	305	650	260	330	340	380	73	89	
	25,8 & 36 kV	1250A	31,5 kA	950	360	70	/	/	/	505	1180	755	1000	630	630	525	800	285	355	260	300	53	64	
		2000A	31,5 kA	950	360	70	/	/	/	505	1185	755	1000	630	630	525	800	285	355	260	300	54	65	
		3150A	63 kA	950	360	70	295	550	695	505	1300	760	1000	630	630	475	800	285	355	260	300	63	73	
		4000A	63 kA	950	360	70	295	550	695	505	1300	760	1000	630	630	475	800	285	355	260	300	65	75	
	52 kV	1250A	31,5 kA	1150	520	70	/	/	/	600	1420	850	1160	630	630	620	860	375	495	260	300	75	87	
		2000A	31,5 kA	1150	520	70	/	/	/	600	1425	850	1160	630	630	620	860	375	495	260	300	77	89	
	72.5 kV	1250A	31,5 kA	1390	655	70	/	/	/	810	1810	1060	1435	630	630	830	1200	550	650	260	300	95	107	
		2000A	31,5 kA	1390	655	70	/	/	/	810	1815	1060	1435	750	630	830	1200	550	650	260	300	97	190	

OUTDOOR TILT DISCONNECT SWITCH TYPE SBE

Horizontal erection drawing for rated intensity U_r : 24 kV to 72,5 kV



Vertical erection drawing for rated intensity U_r : 24 kV to 72,5 kV



- Applicable standard as per IEC 60694 & 62271-102.
- Products and contracts managed as per ISO 2001 (certified).
- Routine test and workshop inspection managed as per QA procedure internal document 00DAP01.
- Packing standard as per SEI specification (European committee for packaging).
- Type test reports available upon request.