

Indoor tilt disconnect switch

IEC 62271-102 standard compliant

TYPE SBI

Ur : 24 to 36 kV - BIL 125 to 170 kV - Ir ≤ 8000 A

Ik ≤ 80 kA - tk : 3s - Ip ≤ 208 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 stationary part and striped end of profiled switch current pad element. Contact Pressure insured by springs.
- Current path elements made of continuous spaced 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.

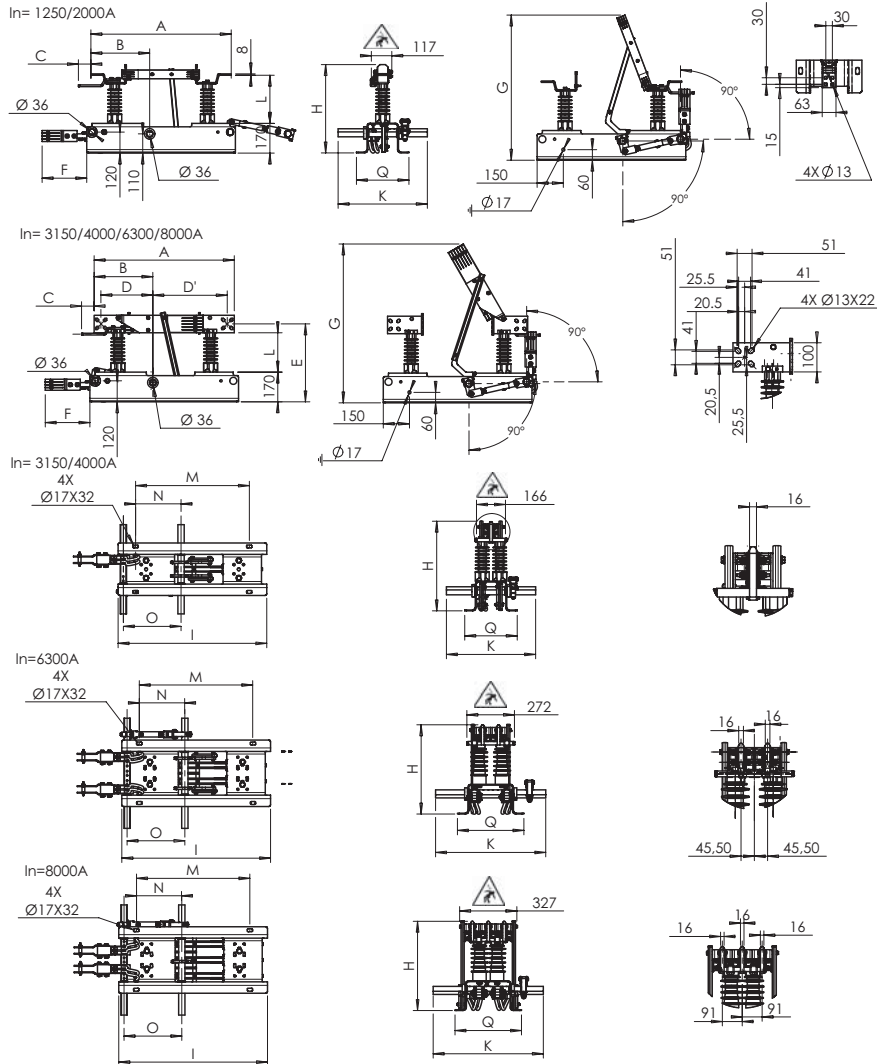
Available choices

- Post insulators
 - Standard: Epoxy resin cantilever 4 kV - Pollution grade 25mm/kV
 - Upon request higher cantilever and/or pollution grade values
- Primary terminals
 - Standard:
 - for 1250 & 2000A horizontal bare copper pad
 - for 3150A, 4000A, 6300A & 8000A vertical bare copper pad
 - Upon request:
 - tin plated or silver plated copper pad
 - horizontal pad for 3150A, 4000A, 6300A & 8000A
- 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 disconnect
 - Standard installation: at hinge side
 - Upon request: at stationary side or at both sides
- Disconnect and earthing switch interlocking
 - Mechanical system fully integrated
- Earthing switch's operating drives
 - Group operated or single pole operated
 - Both manual and motor operation are available (see dedicated catalogues)
- Seismic withstand
 - Standard: up to 0,2 g (higher values upon request)
- Mechanical endurance
 - Standard: 2000 operations (open & close) (higher values upon request)
- Small current breaking capacity
 - Standard: 0,5 A (for higher values see options hereafter)

Optional

- Rated voltage: Ur 7,5 kV (BIL 60 kV) - 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 capacitiv 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)

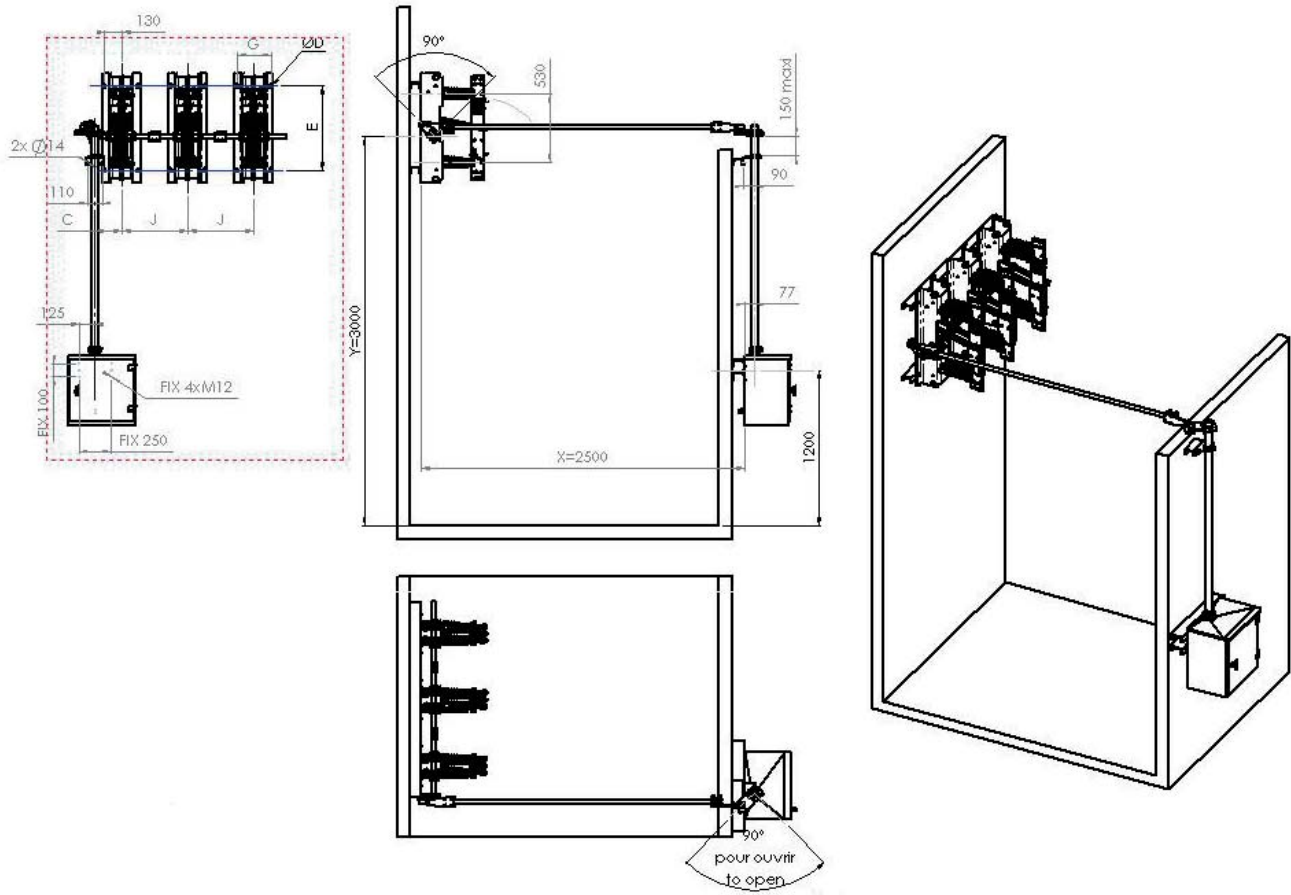
INDOOR TILT DISCONNECT SWITCH TYPE SBI - Ur: 24 to 36 kV - Outline drawing



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	mm	mm	DS only	DS with ES
				SBI INDOOR TILT DISCONNECT SWITCH	24 kV	1250A	31,5 kA	800	335	70	/	/	/	255	830	475	850	510	510	275	650	260	330	260	300	29
2000A	31,5 kA	800	335			70	/	/	/	255	830	485	850	510	510	275	650	260	330	260	300	30	40			
3150A	63 kA	800	335			70	295	425	445	255	910	515	850	510	510	225	650	260	330	260	300	41	50			
4000A	63 kA	800	335			70	295	425	445	255	910	515	850	510	510	225	650	260	330	260	300	43	52			
6300A	63 kA	800	335			70	295	425	445	255	910	515	850	630	630	225	650	260	330	340	380	62	77			
8000 A	80 kA	800	335			70	295	425	445	255	910	515	850	630	630	225	650	260	330	340	380	76	90			
SBI INDOOR TILT DISCONNECT SWITCH	25,8 36 kV	1250A	31,5 kA	950	360	70	/	/	/	340	1015	590	1000	630	630	345	800	285	355	260	300	36	47			
		2000A	31,5 kA	950	360	70	/	/	/	340	1015	590	1000	630	630	345	800	285	355	260	300	37	38			
		3150A	63 kA	950	360	70	295	550	530	340	1130	595	1000	630	630	310	800	285	355	260	300	51	61			
		4000A	63 kA	950	360	70	295	550	530	340	1130	595	1000	630	630	310	800	285	355	260	300	53	63			
		6300A	63 kA	950	360	70	295	550	530	340	1130	595	1000	630	630	310	800	285	355	260	300	73	88			
		8000 A	80 kA	950	360	70	295	550	530	340	1130	595	1000	630	630	310	800	285	355	260	300	93	108			

INDOOR DISCONNECT SWITCH TYPE SBI

Horizontal erection drawing for rated intensity U_r : 24 kV to 36 kV



General features

- 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.