

# Center break disconnecter

IEC 62271-102 standard compliant

## TYPE SR16200

Ur : 36 to 100 kV - BIL 250 to 450 kV - Ir ≤ 3150 A

Ik ≤ 40 kA - tk : 1s - Ip ≤ 104 kA



### Technical description

- Air disconnect switch, center-break moved by two swiveling post-insulators.
- Contacts at breaking point and at intake terminal contact.  
Tangential contact lines between:
  - Male part made of cylindrical silver plated copper part and
  - Female part made by 2 sets of silver plated copper contact blades
 Contact Pressure insured by spring-leafs
- Current path elements made of two continuous spaced copper flat bar profiles
- Post-insulators swivelling system designed for 90° swivelling movement i.e. Stainless steel axis in double self-lubricant ring bearing (no roll or ball-bearing) housed in an aluminium support body, bolted on the base frame support.
- Base frame support made of hot galvanized steel rigid profile.
- Installation Can be either horizontally, or vertically, or bottom-up installed.

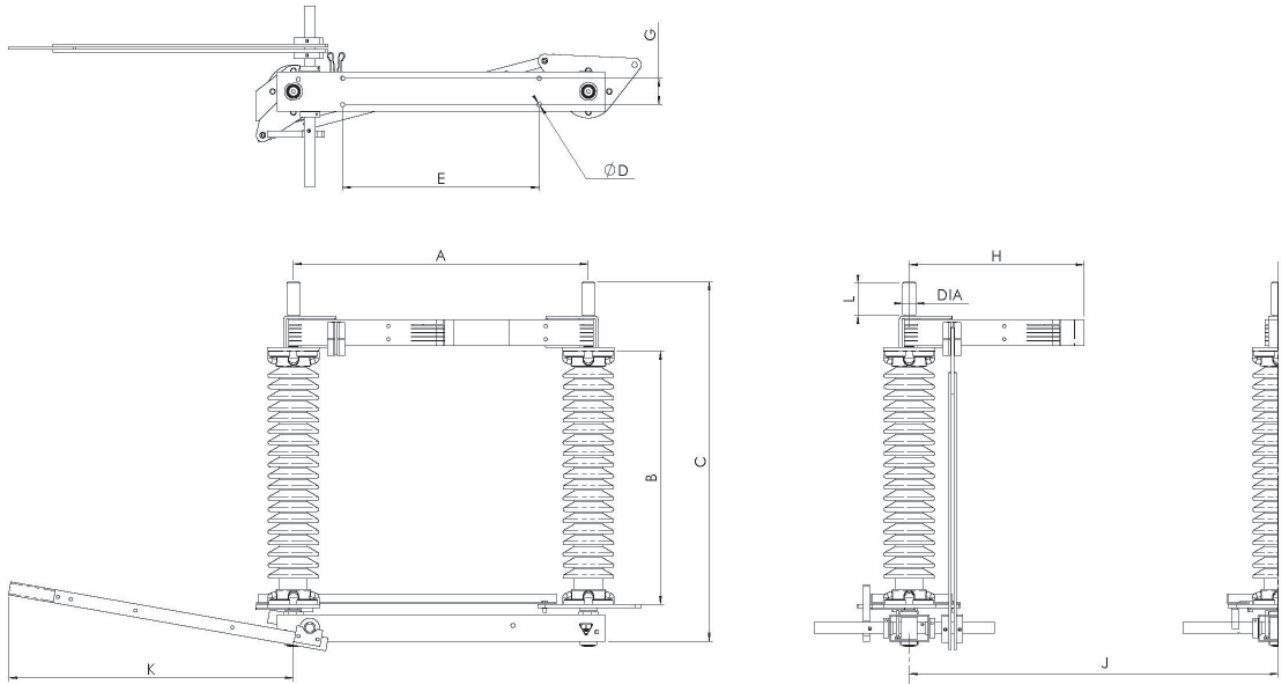
### Available choices

- Post insulators
  - Standard: brown glazed porcelain as per IEC 273 C4 (4 kN) - Pollution 25 mm / kV
  - Upon request: CEI 273 C6 (6 kN), Pollution grade 31 mm/kV or as per ANSI TR Type)
- Primary terminals
  - Standard: copper stud type
  - Upon request either aluminium or copper pad type
- Operating drives
  - Group operated or single pole operated
  - Both manual and motor operation are available (see dedicated catalogues)
- Associated earthing switch can be added at either one, the other, or both sides
  - Standard Ik & tk withstand value 40 kA 1sec
  - Standard installation: parallel to supporting frame
  - Upon request: installation perpendicular to supporting frame
- Disconnecter 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)
- Ice operation
  - Standard: up to 10 mm (20 mm 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

- Making and breaking capacity for bus-transfer currents (see dedicated catalogues) as per IEC 62271-102 Annex B Available for disconnecter Ur ≥ 72,5 kV)
- Making & breaking capacity for inductiv currents (see dedicated catalogue). Applicable to E.S. As per IEC62271-102 Annex C. Available for E.S. at and over Ur 72.5 kV
- Breaking capacity for capacitiv and inductive currents (see dedicated catalogue). Breaking device for 6A under Ur Available for D.S. at and behind Ur 52 kV.
- D.S. & E.S. interlocking with other apparatuses: Using either combined key lock system, electro-mechanical system (coils), or electrical (relays)

**CENTER BREAK DISCONNECTOR TYPE SR16200 - Ur: 36 kV to 100 kV - Outline drawing**



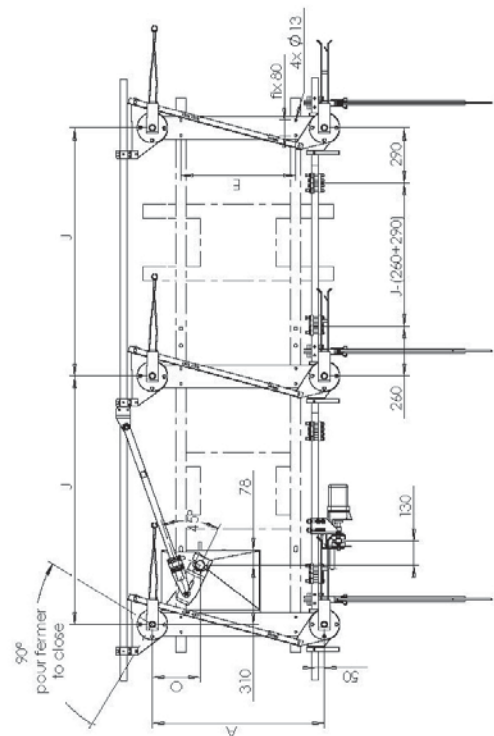
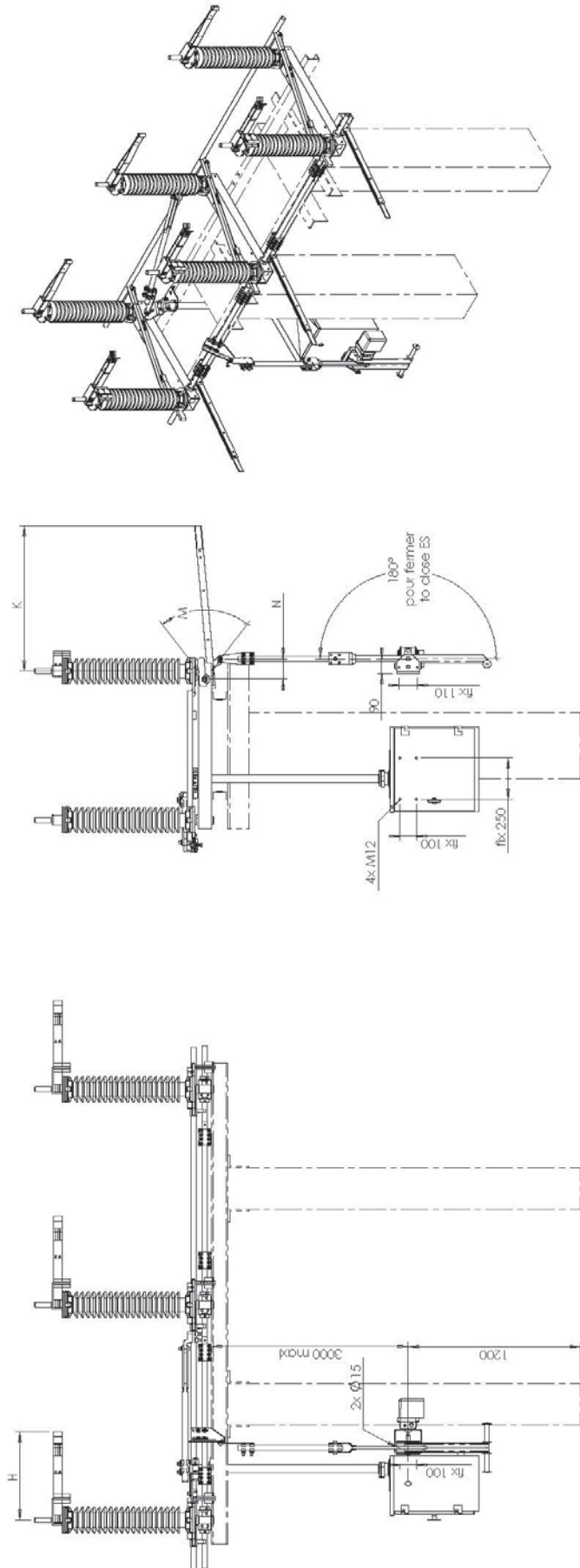
Copper stud terminal	Ir	DIA	L	Ir	DIA	L	Ir	DIA	L	Upon request, either aluminium or copper pad type
	3150 A	Ø 50	95	2000 A	Ø 40	95	1250 A	Ø 30	95	

Type	Rated voltage Ur	Rated current Ir	Ik tk 1 sec.	Fixation											weight per pole	R20°C	DS with ES		Overall dimensions		
				A	B	C	D	E	F	G	H	J	K	Weight			L	Lg	Ht		
				mm	mm	mm	N x mm	mm	mm	mm	mm	mm	mm	mm			mm	Kg	mm	mm	mm
SR16200	100 kV	3150 A	40 kA			1338								135	50		150			1368	
		2000 A	40 kA	1200	1020	1338	4 x Ø13	700	NA	80	685	1700	125	55	1335	140	1500	550	1368		
		1250 A	40 kA			1310							125	60		140			1340		
	72,5 kV	3150 A	40 kA			1088								105	40		120			1118	
		2000 A	40 kA	900	770	1088	4 x Ø13	600	NA	80	535	1300	95	45	890	110	1200	550	1118		
		1250 A	40 kA			1060							95	50		110			1090		
	52 kV	2000 A	40 kA			883								65	35		80			913	
		1250 A	40 kA	700	560	853	4 x Ø13	400	NA	80	435	1100	65	40	780	80	1100	550	883		
	36/38 kV	2000 A	40 kA			883								65	35		80			913	
		1250 A	40 kA	700	560	853	4 x Ø13	400	NA	80	435	1000	65	40	780	80	1100	550	883		

**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 tests reports available upon request.

**CENTER BREAK DISCONNECTOR TYPE SR16200 - Ur: 36 kV to 100 kV**  
**Erection drawing for rated voltage**



Tension (kV)	M (°)	N (mm)	O (mm)
100	75	124	350
72	75	124	250
52	85	104	200
36/38	85	104	200