

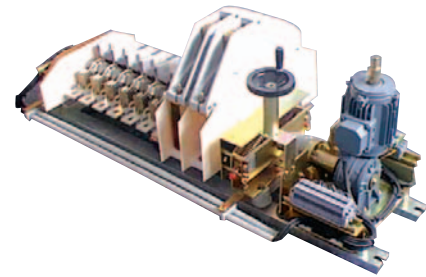


# DC Loadbreak Switches

## IF TYPE

### 1000 V DC - 800 to 6300 A

- Cost saving against DC circuit breakers
- True opening and visible distance
- High loadbreak and loadmake performances
- Closing under large short circuit current



### Main characteristics

Type: IF 1000 V / ... A	Rated thermal current (I <sub>TH</sub> ) (A)	Short time withstand current over 1 min (A)	Peak short-circuit current (kA)	Rate circuit making capacity (kA)
800	800	2700	50	50
1600	1600	4800	75 *	66 *
2000	2000	6000	75 *	66 *
2500	2500	7500	75 *	66 *
3150	3150	9500	75 *	66 *
3800	3800	11500	75 *	66 *
4400	4400	13200	75 *	66 *
5000	5000	15000	75 *	66 *
5700	5700	17100	75 *	66 *
6300	6300	19000	75 *	66 *

\* (minimum values as switch has not been tested further)

### IF 1000V/800A to 6300A :

Rated insulation voltage	Rated breaking capacity	Electrical endurance L/R (ms)		Mechanical endurance (cycles)
1000 V DC *	5 ms **	20 ***	100 ****	10000

\* (1500 V DC under request)

\*\* (1000 V - 10000 A - L/R) : minimum value as switch has not been tested further

\*\*\* (100 cycles at 1000 V - 5000 A - L/R)

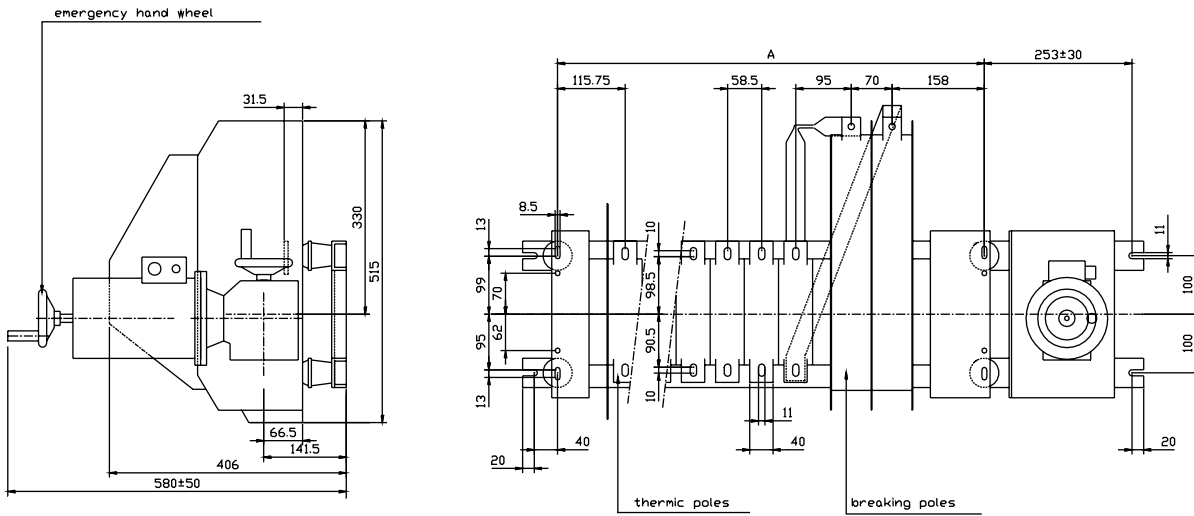
\*\*\*\* (600 cycles at 500 V - 4000 A - L/R)

Typical voltage drop at nominal current : 36 mV

### Technological features

- Separation between main contacts and arcing contacts
- Main contacts of silver-plated copper with two contact points per knife, and special shape for high withstand to short-circuit currents.
- Spring system made of stainless steel.
- Insulating parts made of self-extinguishing fiber glass polyester. Fire classification : UL 94 VO
- Conformity to norms NFC 20 040 catg C

## Dimensions and weight



\*\* Enlargement Dimensions  
C, J, H for Motor drive

Type: IF 1000 V = / ... A	Number of thermal poles	Number of breaking poles	Dim. A	Weight without motorization (kg)
800	1	2	458.8	30
2 x 800	2 x 1	2	548.5	32
1600	2	2	517	32
2 x 1600	2 x 2	2	665.5	35
2000	3	2	575.5	34
2 x 2000	2 x 3	2	782.5	38
2500	4	2	634	35
2 x 2500	2 x 4	2	899.5	41
3150	5	2	692.5	37
2 x 3150	2 x 5	2	1016.5	43
3800	6	2	751	38
4400	7	2	809.5	40
5000	8	2	909.5	41
5700	9	2	968	42
6300	10	2	1026.5	43

Approximate weight of motorisation : 30 kg  
For voltage above 500V use 2 switching poles in series (2-switching-pole loadbreak switch on request)

## References in the world

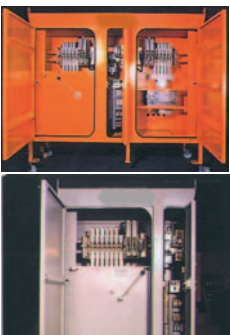
**Subway :** Athena, Barcelone, Bilbao, Cairo, Caracas, Docklande, Lille, Lisbonne, Madrid, Marseille, Mexico, Midland metro, New-york, Paris, Santiago, Teheran.

**Light Rail :** Grenoble, Nantes, Melbourne, Rouen, Strasbourg.

**Railways :** Frenche railways, British-rail.

## Your choice of design

Capability of mounting in enclosure



With its engineering capability in Mannheim (Germany), in Provins (France), and its testing platforms in Saint-Bonnet-de-Mure (France), FERRAZ has it all for defining and offering customized solutions to meet your most specific requirements :

- Adapted drives or control units
- Enclosures for switch protection
- Adapted technical performances (short-circuit current capability, endurance...)