

## Medium voltage disconnectors

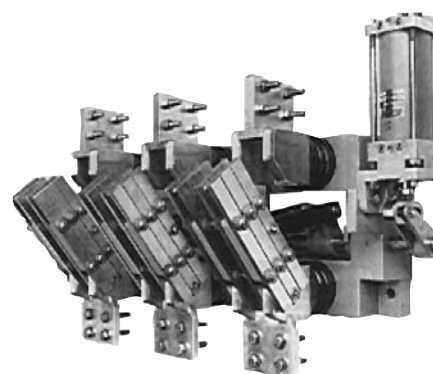
**HAS Range**

**3.6 kV**

**400 A to 6.3 kA – up to 175 Hz**

**Number of poles : 1, 2, 3, ...**

- Large isolation air and creepage path
- Self-cleaning blade contacts
- True opening and visible distance
- Rugged anti-torsion construction
- Large customisation with :
  - Auxiliary switches, blocking magnets
- According to IEC 62271



### Electrical Characteristics

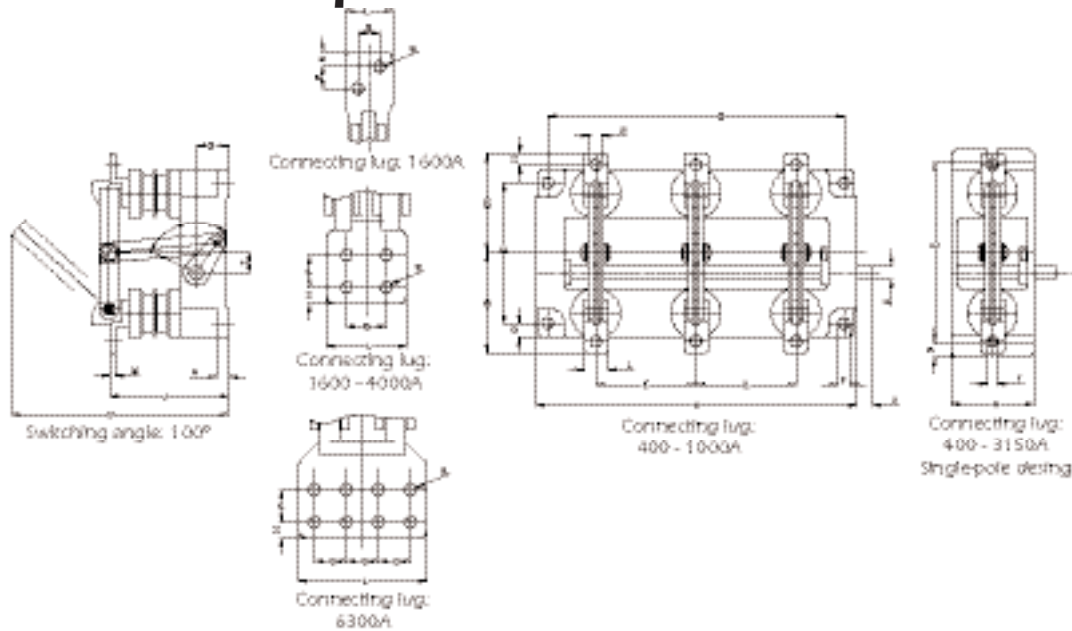
Rated thermal current		RMS 1 sec short-time withstand current (kA)	Rated peak current (kA)
AC (A)	DC (A)		
400	400	26	65
630	630	26	65
1000	1250	40	100
1600	1900	52	130
2000	2400	52	130
3150	3750	71	177
4000	5300	71	177
6300	7500	81	214

Dielectric withstand voltage 1 min/50 Hz		Rated impulse withstand voltage BIL	
Phase to earth (kV)	Across the isolating distance (kV)	Phase to earth (kV)	Across the isolating distance (kV)
10	12	40	46

- No-load operation
- Indoor type – only vertical mounting
- Mechanical endurance:  $\leq 1\text{kA} = 25\ 000$  cycles;  $>1\text{kA} = 50\ 000$  cycles (open / close)
- Maximum temperature withstand at 130° C without damages to the switch
- Electrical contact by contact knives with pressed on hard silver contact rivets and silver-plated electrolytic copper plates
- Small making / breaking capacity (on demand)
- Supporting insulators made of cast epoxy resin (fire classification according to UL94-V1)

## Main dimensions

### HAS 400 - 6300 Amp



Amp AC	No of poles	A	B =BI	C	D	E	Fø	G	H (**)	J (**)	K	L	M	N	P	Q	R	S	T	Uø	V	**	Drive
400	1	105	125	270	-	235	11	12.5	15	148	-	30	6	15	-	-	11	40	25	18	60	-	1A
630			135	156						40		20	-	-									
1 000			144	285						10		-	-	-									
1 600		110	200	365	-	320	14	20	20	181	-	60	12	18	27	27	14	48	29	25	80	-	1B
2 000				375						192		80	18	40	40								
3 150				385						198		100	20	40	50								
4 000	220	249	420	190	240	14	42.5	20	205	-	120	-	-	-	-	-	60	32	30	-	-	1C	
6 300			269						480		225												160
400	2	275	125	270	245	175	17.5	15	156	191	125	30	6	15	-	-	11	40	25	18	60	-	1B
630			135	156								40	20	-			-						
1 000			144	285								10	-	-			-						
1 600		465	200	375	415	220	18	27.5	30	202	200	60	12	18	27	27	14	58	29	25	80	15	2
2 000				385						191		80	18	40	40								
3 150				395						208		100	20	40	50								
4 000	600	249	430	550	240	18	42.5	36	215	-	120	20	-	-	-	-	60	32	30	-	35		
6 300			269						465		235											160	40
400	3	400	125	270	370	175	14	17.5	15	148	125	30	6	15	-	-	11	40	25	18	60	-	1B
630			135	156								40	20	-			-						
1 000			144	285								10	-	-			-						
1 600		665	200	375	615	220	18	27.5	30	191	200	60	12	18	27	27	14	58	29	25	80	15	2
2 000				385						191		80	18	40	40								
3 150				395						208		100	20	40	50								
4 000	800	249	430	750	240	18	42.5	36	215	-	120	20	-	-	-	-	60	32	-	35	4		
6 300			269						465		235											160	40

Ferraz Shawmut has it all for defining and offering customized solutions to meet your most specific requirements :

- Adapted drives or control units
- Adapted technical performances (short-circuit current capability, endurance ,small load make / break capacity)