

Medium voltage disconnectors

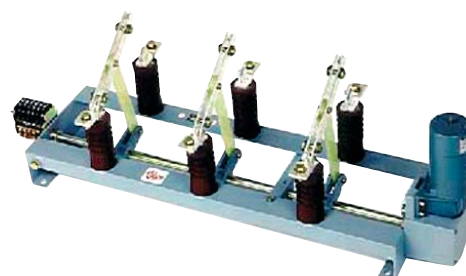
HAS Range

12 kV, 24 kV, 36 kV

400 A to 1 000 A - 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 :
 - Manual, motor, pneumatic drives
 - Auxiliary switches, blocking magnets
- According to IEC 62271-102
- Dimensions Fitting



Electrical Characteristics

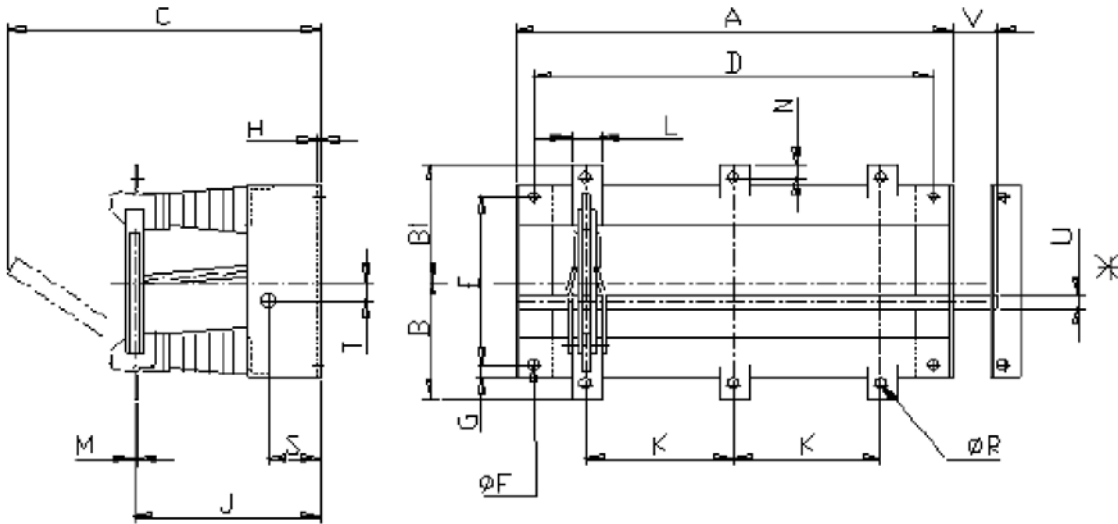
Rated thermal current A	Rated insulation voltage			
	12 kV		24 & 36 kV	
	RMS 1 sec short-time withstand current kA	Rated peak current kA	RMS 1 sec short-time withstand current kA	Rated peak current kA
400	20	50	26	65
630	20	50	26	65
1000	40	100	30	75

(kV)	Dielectric withstand Voltage 1 min/50Hz (KV)		Rated impulse withstand voltage BIL (KV)	
	Phase to earth and between poles (kV)	Across the isolating distance (kV)	Phase to earth and between poles (kV)	Phase to earth and distance (kV)
12	28	32	75	85
24	50	60	125	145
36	70	80	170	195

- No-load operation
- Indoor type - only vertical mounting
- Mechanical endurance: 50 000 cycles for I>1kA; 25 000 cycles for I<kA; 1 cycle = 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)

Medium voltage disconnectors

HAS 400 A to 1000 A



kV	Amp	No of poles	A	B = B1	C	D	E	Fø	G	H	J	K	L	M	N	Rø	S	T	Uø	V	Drive														
12	400	1	142	320	450	92	245			5	253	-	30	6	15	11	70	29	18	180	16														
	630			-								40	10	20	14																				
	1000			-								40	10	20	14																				
	400	2	590	320	450	540					245			5	253	200				30	6	15	11	70	29	18	60	2							
	630			340																40	10	20	14												
	1000			358																40	10	20	14												
	400	3	790	320	450	740									245						5	253	200				30	6	15	11	70	29	18	60	2
	630			340																							40	10	20	14					
	1000			358																							40	10	20	14					
24	400	1	142	420	685	92	320	14		40							383	320	30			6	15				11	90	80	25				230	1b
	630			440															40			10	20				14								
	1000			458															40			10	20				14								
	400	2	570	420	685	520					320	14		40			383	320	30			6	15	11	90	80	25							185	2
	630			440															40			10	20	14											
	1000			458															40			10	20	14											
	400	3	890	420	685	840									320	14		40	383	320	30	6	15	11							90	80	25	185	2
	630			440																	40	10	20	14											
	1000			458																	40	10	20	14											
36	400	1	142	500	885	92	414			41									503	450	30	6	15	11				110	60	30				340	1b
	630			520																	40	10	20	14											
	1000			538																	40	10	20	14											
	400	2	870	500	885	810					414			41					503	450	30	6	15	11	110	60	30							200	2
	630			520																	40	10	20	14											
	1000			538																	40	10	20	14											
	400	3	1320	500	885	1260									414			50	503	450	30	6	15	11							110	60	30	200	2
	630			520																	40	10	20	14											
	1000			538																	40	10	20	14											

Ferraz Shawmut offers customized solutions to meet your most specific requirements:

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