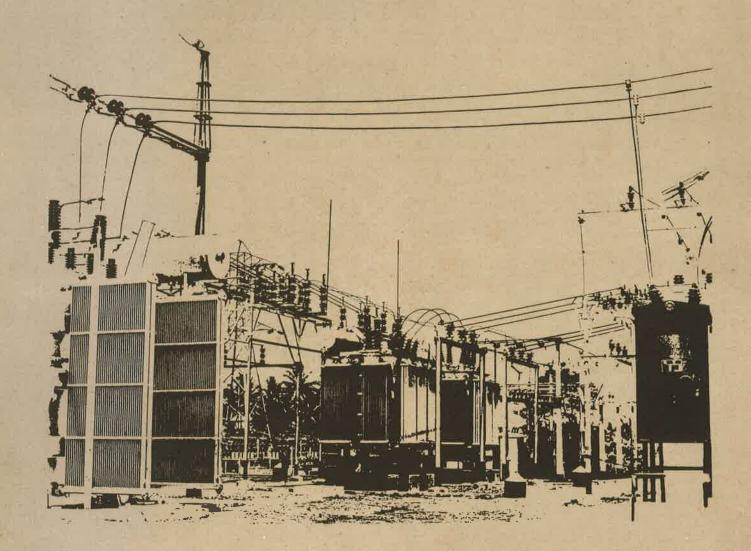
VACUUM SWITCHGEAR



from S8S

TYPE FV

VACUUM SWITCHGEAR

Low-Maintenance Costs

The principle of current interruption in a high vacuum ensures long contact life without inspection or replacement.

Long Life and Reliability of Performance

The Vacuum interrupters are capable of many load and fault operations and the operating mechanism has been designed to ensure a life comparable with the life of the interrupters with the minimum of maintenance.

Minimum Fire Risk

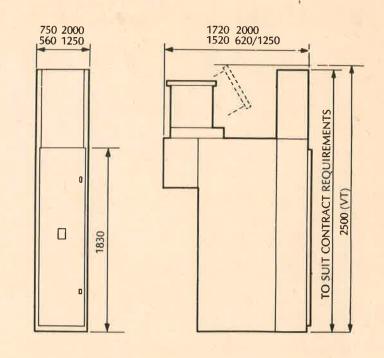
The absence of oil and inflammable gases ensures minimum fire risk.

Application

The type FV equipment is suitable for systems up to 13.8kV for all duties; i.e. distribution switchgear, arc furnace control, capacitor switching and motor starting. It is also suitable for high speed fault clearance and auto-reclose duties.

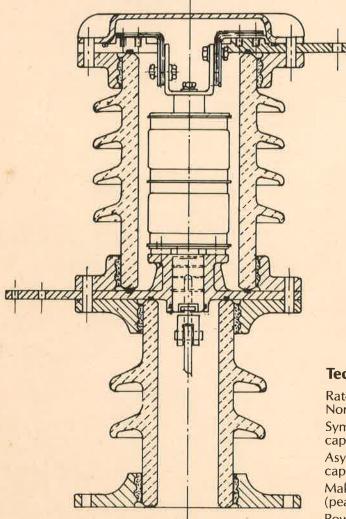
Bottom Busbars

Each unit is equipped with a 3-phase set of busbars located in the lower chamber of the unit and supported on cast resin insulators.



Type Rated Voltage, kV Rated continuous current (amps) Short-circuit rating	400/630	FV6/12 12	FV12/12 12 1250	FV12/25 12 1250	FV20/31.5 12 2000 2	FV20/40 12
Symm. breaking capacity (kA) Asym. breaking capacity (kA)		12.5 15.3	12.5 15.3	20.3	31.5 39	40 50
Making capacity (peak) (kAp)		31.3	31.3	67	79	100
Power frequency withstand (kV) Impulse withstand		28	28	28	28	28
(kVp)		75	75	75	75	75

TYPE OFVp VACUUM SWITCHGEAR

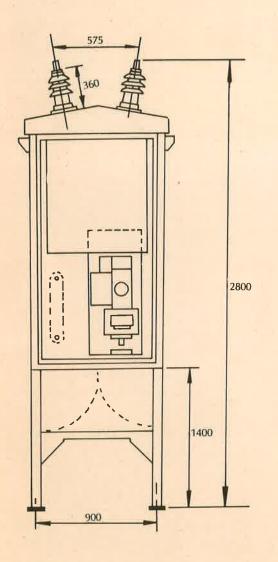


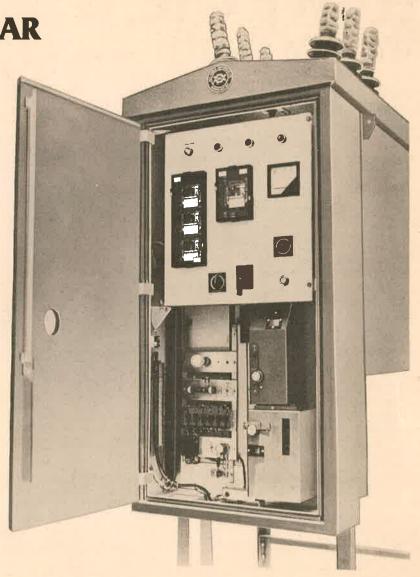
Pole Unit Construction (Closed Condition)



Rated Voltage Normal Current Rating	12kV 630A, 800A, 1250A, 1600	0A, 2000A,	2500A
Symm. breaking capacity (kA)	12.5	20	25
Asym. breaking capacity (kA)	16.6	26.8	33
Making capacity (peak) (kAp)	31.3	50	62.5
Power frequency withstand (kV)	28	28	28
Impulse withstand (1.2/50µs) (kVp)	75	75	75

TYPE OFV VACUUM SWITCHGEAR





Rated system voltage, kV		12	
Rated continuous current (amps)	630/8	800/1250/	1600
Short-circuit rating symm. breaking capacity (kA)	12.5	20	25
Asym. breaking capacity (kA)	16.6	26.8	33
Making capacity (peak) (kAp)	31.3	50	62.5
Power frequency withstand (kV)	28	28	28
Impulse withstand (1.2/50µs) (kVp)	75	75	75

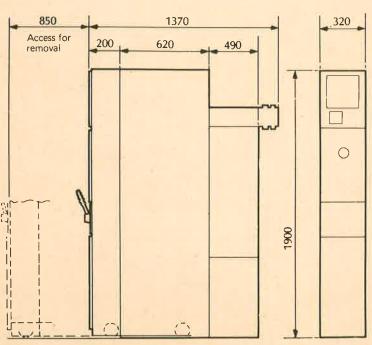
HAWKVAC 6 VACUUM SWITCHGEAR

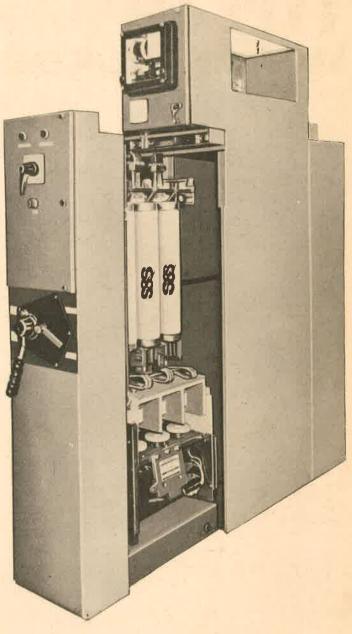
The S & S range of HAWKVAC 6 vacuum contactor equipment is suitable for use on systems upto and including 6.6 kV with short circuit fault levels up to and including 40kA.

Basic philosophy is a fixed housing accommodating busbars, protection relays, earth switch, C.T's and cable area and a removable carriage accommodating HRC fuses, vacuum contactor, and control equipment.

Units can be supplied as single free standing starters or individual units can be connected together to form complete control boards.

The unit has been designed for directon-line starting of squirrel cage induction motors but other units will become available for assisted start requirements.





lechnical Data:				
Rated Voltage	3.6kV	7.2kV		
Normal Current Rating	250A			
Busbar current				
	A, 1600A, 200			
Busbar short time rating up to 40kA for 3secs				
Busbar peak withstand current	100kA	100kA		
Impulse level	40kV	40kV		
Power frequency withstand				
for one minute	10kV	20kV		
Motor switching	1150kW	2150kW		
Transformer switching	1400kVA	2750kVA		
Capacitor switching	1400kVAr	2750kVAr		
Maximum fuse rating	350A	315A		
Contactor	400A	400A		
Maximum interrupting capacity	5.0kA	5.0kA		
Contactor power consumption	80Watts	80Watts		