

**BATEL**

**ELEKTROMEKANİK**

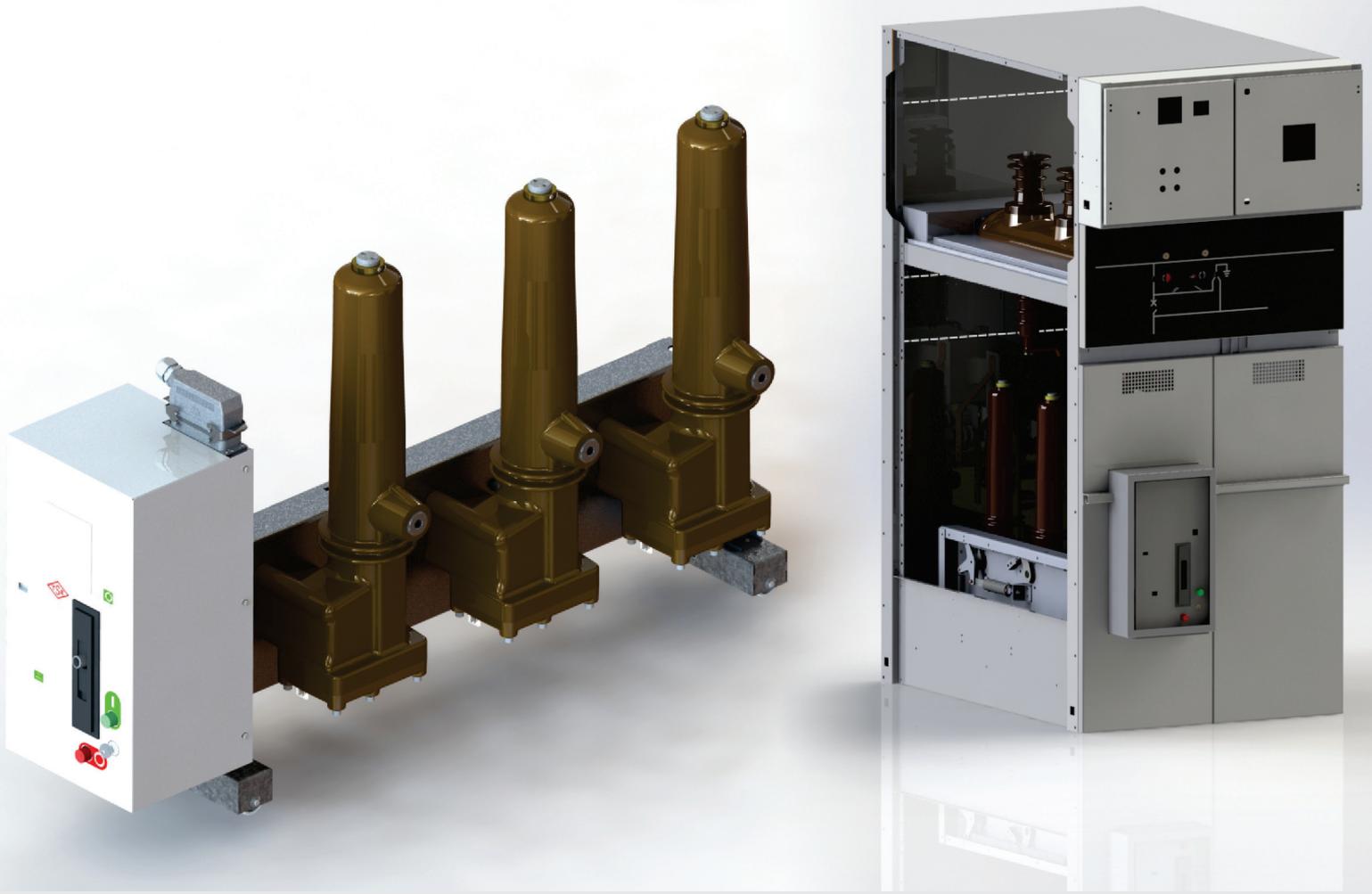
**BGK**

**SF<sub>6</sub> GAS INSULATED CIRCUIT BREAKER**

**UP TO 40.5 kV**



# SF<sub>6</sub> GAS INSULATED CIRCUIT BREAKER



## General Specifications

BGK type SF<sub>6</sub> circuit breakers guarantees high level of safety and reliability basically due to applied SF<sub>6</sub> arc quenching technic and BATEL's experience in medium and high voltage switchgear production more then 35 years.

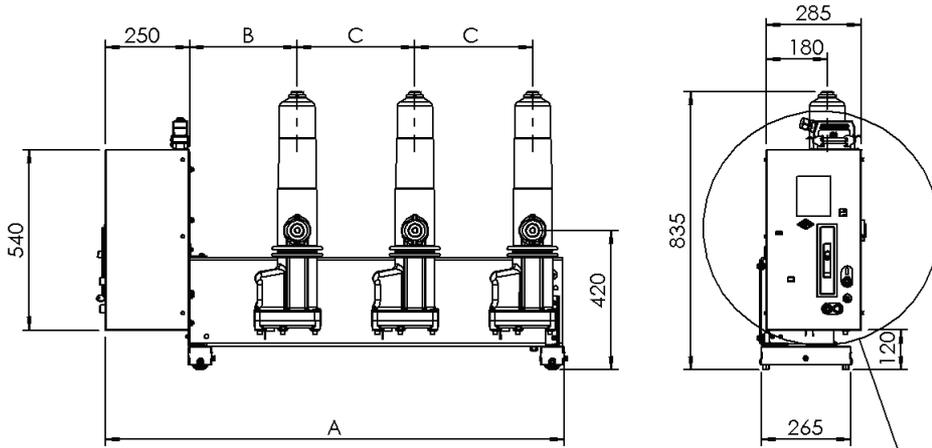
By these means BGK circuit breakers provide high level continuity and availability for the electricity distribution systems. These specs also obtain longer operational endurance and less maintenance. 3 separate poles have epoxy resin insulated enclosure which are filled with SF<sub>6</sub> gas and this sealed pressure system guaranteed for its life.

The safety of the gas filled pole enclosure is secured by the membrane system on the bottom cap. Operating mechanism can be charged manually by lever or by motor. Charged mechanism has stored energy for closing and opening.

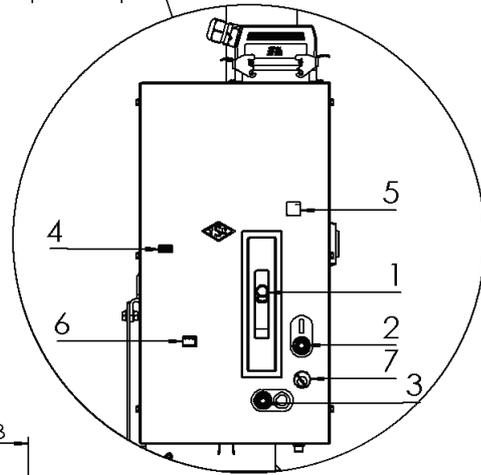
Closing and opening functions can be done by the push-buttons or by the release coils. BGK circuit breakers have both frontal mechanism and lateral mechanism versions. 4NO + 4 NC or 6 NO + 6 NC OPEN / CLOSED position auxiliary contacts can be selected optionally.

TECHNICAL SPECIFICATIONS	12 kV	17,5 kV	24 kV	38/40.5 kV
Rated voltage, kV	12	17,5	24	38/40.5
Rated current, A	630/1250			
Rated power frequency test voltage, kV	28	38	50	95
Rated frequency, Hz	50			
Rated impulse test voltage, kV peak	75	95	125	200
Rated short-circuit breaking current, kA	16/20/25			
Short time withstand current, 3s, (Ik)kA	16/20/25			
Rated short-circuit making current, kA peak	40/50/62,5			
Operating sequence	O - 0.3 s - CO - 3 min -CO			
Electrical endurance class	E1 ( E2 for non-reclosing )			
Mechanical endurance class	M1 ( 2000 operations)			
Temperature range, °C	-5 /+40			
Capacitive current switching class	C2			
Auxiliary power supply, V AC/DC	24V/48V/110V/220V DC, 220V AC			

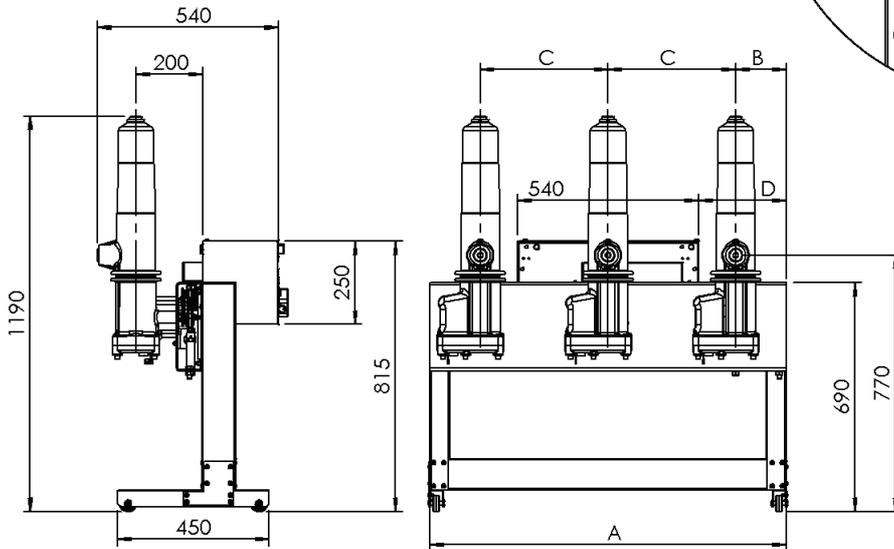
# SF<sub>6</sub> GAS INSULATED CIRCUIT BREAKER



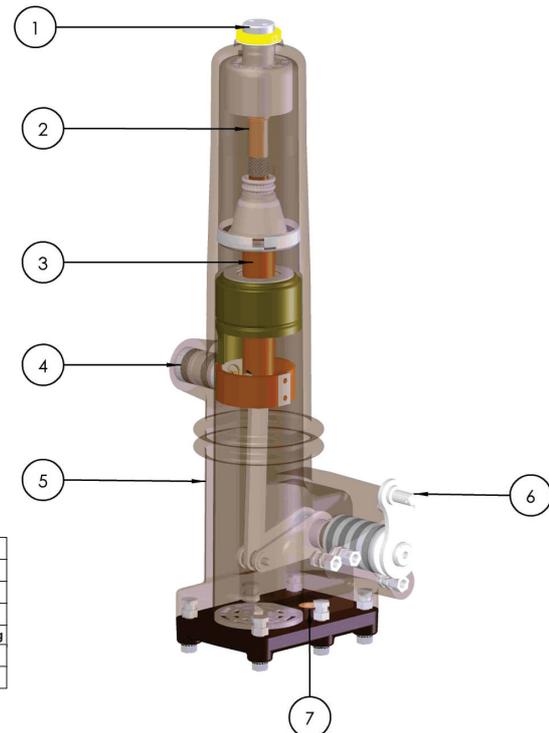
Lateral Type				
Rated Voltage (kV)	Dimensions (mm)			Weight (kg)
	A	B	C	
12-17,5	974	210	210	103
24	1094	250	250	104
38/40.5	1370	320	350	105



1. Charging arm
2. Closing button
3. Openin button
4. Counter
5. Position indicator
6. Spring indicator
7. Mechanical lock



Frontal Type					
Rated Voltage (kV)	Dimensions (mm)				Weight (kg)
	A	B	C	D	
12-17,5	750	125	220	125	103
24	860	150	280	160	104
38/40.5	1060	150	380	260	105



- |   |                     |
|---|---------------------|
| 1 | Upper terminal      |
| 2 | Fixed contact       |
| 3 | Moving contact      |
| 4 | Lower terminal      |
| 5 | Epoxy resin housing |
| 6 | Shaft               |
| 7 | Gas filling insert  |

# QUALITY MANAGEMENT



**BATEL ELEKTROMEKANİK SAN. ve TIC. AS.**  
**IAOSB 10001 Street No:13 Cigli / IZMIR - TURKEY**  
**Tel: +90 232 376 76 90(pbx) Fax: +90 232 376 76 91**  
**www.batel.com.tr e-mail: info@batel.com.tr**