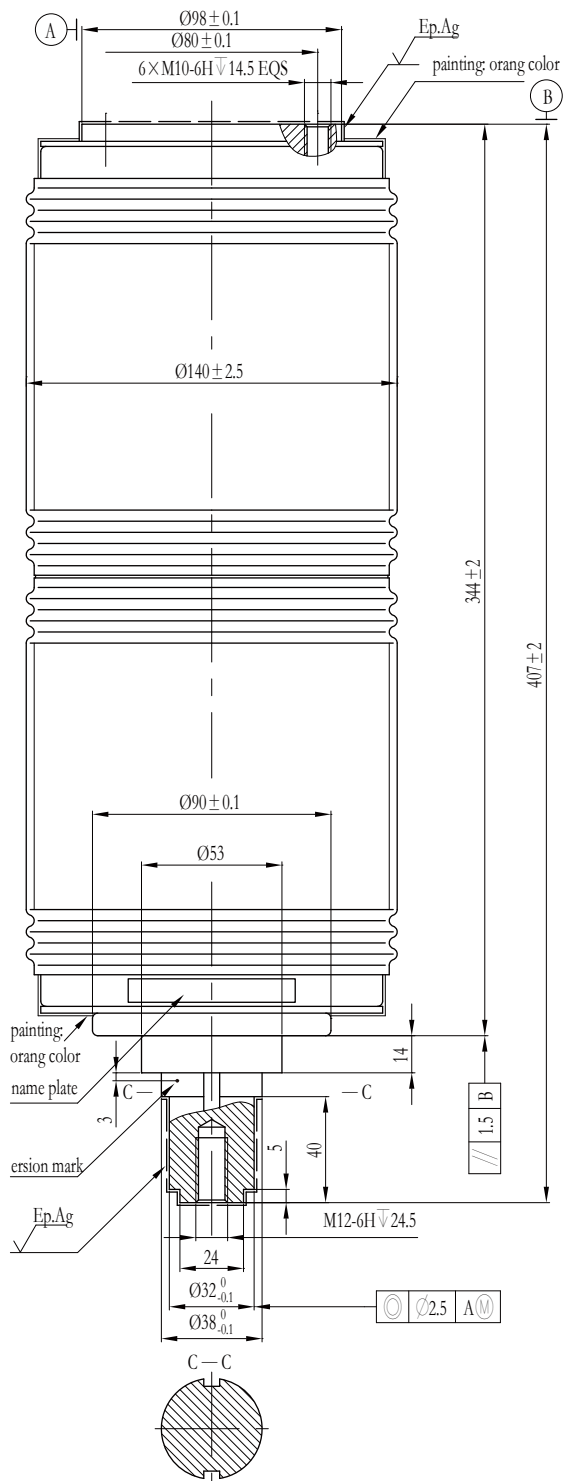




# Vacuum Interrupter for Circuit-Breaker

## GTD-40.5/2000-31.5A



Main Technical Data		
Item	Unit	Value
Rated Voltage	kV	40.5
Lightning Impulse Withstand Voltage (Peak)	kV	185
Short-time (1min) Power-frequency Withstand Voltage	kV	95
Rated Frequency	Hz	60
Rated Current	A	2000
Rated Short-time Withstand Current	kA	31.5
Rated Duration of Short-circuit	s	4
Rated Peak Withstand Current	kA	80
Rated Short-circuit Making Current	kA	80
Rated Short-circuit Breaking Current	kA	31.5
Max. Dc Component		40%
Switch Operations of Rated Short-circuit Breaking Current	Operations	20
Rated Single Capacitor Bank Breaking Current	A	400※
Rated Back-to-Back Capacitor Bank Breaking Current	A	400※
Mechanical Endurance	Operations	10000
Clearance Between Open Contacts	mm	21±2
Contact Closed Force Due to Bellows and Atmosphere	N	230±40
Counterforce of Contact at Full Stroke	N	305±30
Circuit Resistance at Min. Rated Contact Force	μΩ	≤20
Contact Limit Erosion	mm	3
Mass of Moving Parts	kg	3.0
Internal Gas Pressure	Pa	<1.33×10 <sup>-3</sup>
Shelf Life	Years	20
Rated Operating Sequence		Open-0.3s-CO-180s-CO

Mechanical Data of Switch Equipped With Interrupter		
Item	Unit	Value
Average Opening Speed (first 12mm)	m/s	1.7±0.3
Average Closing Speed (last 6mm)	m/s	1.3±0.3
Contact Bounce Duration at Closing Operation	ms	≤3
Out of Simultaneity of Contact Closing and Opening	ms	≤2
Rated Contact Pressure	N	3200 <sup>+300</sup> <sub>0</sub>
Contact Pressure at Contact Touch Point	N	2250 <sup>+210</sup> <sub>0</sub>
Max. Rebound of Contact at Opening Operation	mm	3
Overtravel During Opening	mm	≤3

Note 1: “※” Rated characteristics to be given on request;

Note 2: Meets or exceeds the electrical endurance requirements of class E2 for autoreclosing duty per IEC 62271-100;

Note 3: The movable stem of the vacuum interrupter could not suffer on more than 45N · m twisting force and in order not to damage the metal bellows, the movable stem should be prevented from rotation when assembling. For more requirements please check the Instructions of Usage.