VACUUM INTERRUPTER FOR CIRCUIT BREAKER

HFTD-12/630-20CH

Features

- Rated voltage12kV
- Rated short-circuit breaking current 20kA
- Mechanical endurance10000ops
- one circle welding
- CuCr meterial for contact
- High insulation、Small volume、Long lifetime

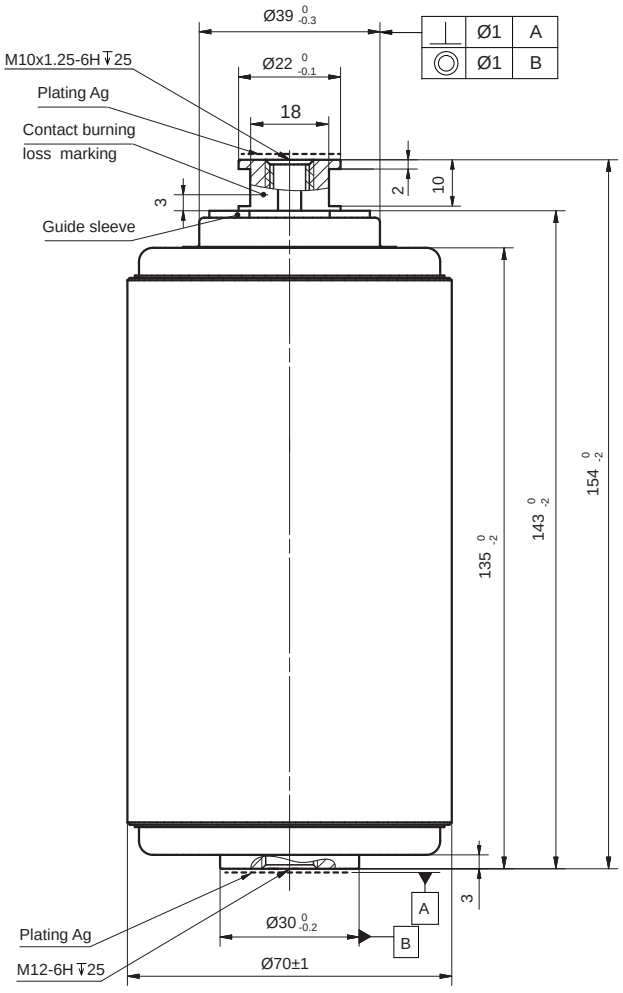
MAIN TECHNICAL SPECIFICATION

Rated voltage	12kV
Rated current	630A
Rated frequency	50/60Hz
Rated short-time power frequency withstand voltage(1min)	48kV*
Rated lighting impluse withstand voltage	85kV*
Rated short-circuit breaking current	20kA
Rated shot-circuit making current	50kA
Rated short-time carrying current	20kA
Rated peak carrying current	50kA
Rated duration of short-circuit	4s
Rated time of short-circuit breaking	30ops
Max. DC-component	50%
Rated breaking current of single capacitor bank	630A
Rated breaking current of back to back capacitor bank	400A
Mechanical endurance	10000ops
Clearance between open contacts	9±1mm
Contacts closing force due to contact self-closing force and atmosphere	90±30N
Contact Counter force at rated clearance	160±30N
Circuit resistance at Min. Rated contact force	≤20μΩ
Internal gas pressure	≤5×10^{-4}Pa
Acceptable contact burning loss thickness	3mm
Weight of moving parts	0.5kg
Service life	20 years

Notes: * Transformer oil or other same types of insulating mediums

OUTLINE DRAWING

Unit: mm



SPECIFICATION FOR MATCHED SWITCHGEAR

Rated contact force	2000±100N
Average opening speed	1.1±0.2m/s
Average closing speed	0.8±0.2m/s
Contact bouncing duration at closing operation	≤2ms
Contact rebouncing amplitude during opening operation	≤2mm
Three-pole simultaneity	≤1ms