

CT28 Spring Operating Mechanism

Summary

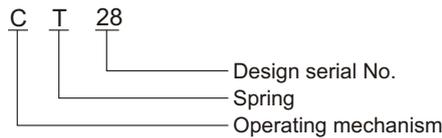
CT28 spring operating mechanism comply with IEC62271 & GB/T984-A.C. HV circuit-breaker, and relevant clauses in GB/T11022. The mechanism store power by dependent manual or motor; switch on and off power by button and electromagnetic power. It is also available with slow operation.



Ambient condition

1. Altitude: $\leq 4000\text{m}$;
2. Ambient temperature: $-35^{\circ}\text{C}\sim+40^{\circ}\text{C}$;
3. Relative humidity: monthly average $\leq 90\%$;
4. Earthquake intensity: ≤ 8 degree;
5. Ice thickness: $\leq 20\text{mm}$;
6. Air pressure: $\leq 700\text{Pa}$ (equivalent with wind speed at 34m/s).

Model



Product feature

CT28 spring operating mechanism absorbs advanced technology of TOSHIBA of Japan. It applies to 12kV/20kA, 31.5kA, 40kA, ZN28 series, ZN63 series, ZN73 series, VK series and ZW37-40.5 vacuum circuit-breaker as well as those with equivalent closing power.

Technical specification

Item	Unit	CT28		
		CT28- I	CT28- II	CT28- III
Rated voltage of CO electromagnet	V		AC/DC110 AC/DC220	
Rated voltage of storage motor	V		AC/DC110 AC/DC220	
Rated voltage of opening electromagnets	V		AC/DC110 AC/DC220	
Rated power of motor	W		70	
Mechanism life	Time		20,000	
Rated short-circuit breaking current	kA		20, 25, 31.5, 40	
Outline dimension	mm		136 × 176 × 356	

Specification of mechanism and main components

Model	Weight	Dimension (mm)	Motor power (W)	Closing spring	Breaking current of VCB (kA)	Remark
CT28- I	23kg	375 × 350 × 180	70	$\phi 6$	20,25,31.5	Applicable for ZN85 series and 35kV outdoor switch
CT28- II	24kg	375 × 567 × 180	70	$\phi 6 + \phi 3$	40	
CT28- III	30kg	375 × 350 × 180	70	$\phi 6$	20,25,31.5	ZN73 midship system
CT28-IV	32kg	375 × 747 × 180	70	$\phi 6 + \phi 3$	40	

Rated data of C/O electromagnet

Rated voltage of C/O electromagnet	DC		AC	
	110V	220V	110V	220V
C/O current	2.3A	1.5A	2.3V	1.5A
C/O resistance	47 ± 5	146 ± 15	47 ± 5	146 ± 15
Rated voltage	65%-110% of rated voltage			