



Function Introduction

Through many years of dedicated research on the actual system operation situation and customer needs of new energy at home and abroad, UNITE Electric has developed the TOM7Z series of DC Molded Circuit Breaker for New Energy.

Product Characteristic

- for TOM7Z series DC Molded Circuit Breaker ,The maximum rated voltage is DC1000V and the maximum current is 400A.
- for TOM7Z series Molded Circuit Breaker, in the voltage of DC1000V,the maximum breaking capacity is 50KA,which can ensure reliable short-circuit protection of the system.

Standard

TOM7Z series DC molded case circuit breaker meet the following standards:
IEC 60947-1 GB/T14048.1 General Provisions
IEC 60947-2 GB/T14048.2 circuit breaker

Applied Environment

- 1.The altitude is not higher than 2000m;
- 2.It is resistant to damp air(three-prooftype)
- 3.It is resistant to the influence of salt fog and oil fog(three- proof type);
- 4.It is resistant to the influence of mold(three-prooftype);
- 5.In a medium without explosion risk, and the medium is not enough to corrode the metal and destroy the insulation of the gas and conductive dust.

Class

- According to operation mode:
- 1.Direct operation
 - 2.Electricoperator mechanism operation
 - 3.Rotary handle operation
- According to the protection form:
- 1.Line protection
 - 2.Line isolation
- According to the wiring form:
- 1.Front-board wiring
 - 2.Rear-panel wiring
 - 3.Plug-in wiring

Model preparation meaning

TO	TOMZN
M	Molded Case
7	Design No.
Z	DC direct current
125、250、400	Shell frame grade current
2	Phase No.
300	Stripper mode and attachment code(see Table)
DC1000V	Rated voltage (DC250、600、750、800、1000V)
16、20、25、32、40、50、63、80、100、125、140、150、160、175、180、200、225、250A	Rated current

Model	TOM7Z-125				TOM7Z-250				TOM7Z-400			
Rated current of shell frame grade $I_{nm}(A)$	125				250				400			
Rated current $I_n(A)$	16,20,25,32,40,50,63,80,100,125				140,150,160,175,180,200,225,250				315,350,400			
Pole Number	1	2	3	4	1	2	3	4	1	2	3	4
Rated working voltage $U_e(V)DC$	250	600	750	1000	250	600	750	1000	250	600	750	1000
Rated insulation voltage $U_i(V)$					1000							
Rated impulse withstand voltage $U_{imp}(kV)$					12							
Extreme short-circuit breaking capacity $I_{cu}(kA)$	35				50				50			
Running short-circuit breaking capacity $I_{cs}(kA)$	22				35				35			
Wiring mode					Up incoming and down outcoming							
Mechanical life(Total times)					10000							
Electrical life(Total times)					5000							
Insolation feature					yes							
Standard					IEC 60947-2 GB/T 14048.2							
Allowable ambient temperature					-40°C...70°C							
Levels of protection					IP20							
Quality certificate					CE LVD RoHs certificate							
With accessories					Auxiliary,alarm, off load, hand operation, electric operation							
Arcing distance(mm)					≤50(Zero arc, with arcing cover)							
Transient Action value					10I _n							
Overall dimensions L*W*H(mm)	150*38*86(1P)/150*65*86(2P)				165*43*110(1P)/165*74*110(2P)							
Overall dimensions L*W*H(mm)	150*90*86(3P)/150*122*86(4P)				165*105*110(3P)/165*142*110(4P)				225*150*146(3P)/223*198*146(4P)			
Installation way					fixed type,plug-in type							

Action characteristic curve of the circuit breaker

