



### 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 DC500V and the maximum current is 250A.
- for TOM7Z series Molded Circuit Breaker, in the voltage of DC500V,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
B	Thermo-magnetic release characteristic
125、250	Shell frame grade current
2	Phase No.
300	Stripper mode and attachment code(see Table)
DC12-500V	Rated voltage
16、20、25、32、40、50、63、80、100、125、140、150、160、175、180、200、225、250A	Rated current



Model	TOM7Z-B125	TOM7Z-B250
Rated current of shell frame grade $I_{nm}(A)$	125	250
Rated current $I_n(A)$	16,20,25,32,40,50,63,80,100,125	125,140,150,160,175,180,200,225,250
Pole Number	1, 2	1, 2
Rated working voltage $U_e(V)DC$	12-500	
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
Running short-circuit breaking capacity $I_{cs}(kA)$	22	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	10 $I_n$	
Overall dimensions L*W*H(mm)	150*38*86(1P)/150*65*86(2P)	165*43*110(1P)/165*74*110(2P)
Installation way	fixed type,plua-in tvne	

Action characteristic curve of the circuit breaker

