

### Overview

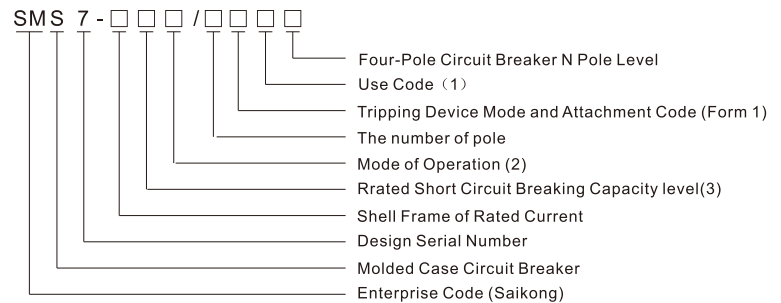
We adopt advanced technology design and the development of the new type of circuit breaker. The product has small volume ,high breaking capacity and arc-extinguishing medium.M7 can also be used for un-frequent start, overload, short-circuit and voltage absent protection.M7 Series molded case circuit breaker (hereafter referred to as simply breaker), whose insulated Voltages 800V, suitable for conversion and starting a motor not frequently in the circuit of 50Hz AC (or660Hz) rated working voltage 690V, rated working current up to 1250A, The breaker have overload, short circuit and under-voltage protection device, which protects the circuit and power equipment against damage.The breaker can be installed vertically (upright) as well as horizontally (crosswise).



### Functions and Characteristics

- Normal application environment Altitude ≤ 2000m
- Ambient temperature -5~+40.
- Kept in the media without explosive hazard
- There is no conductive dust or gas which is able to erode metal or destroy insulation..
- Kept in the place where no sleet will attack.

### Model Descriptions



- Note: 1. Distribution with no code, .to protect the motor with 2.  
 2.Handle the operation without code, the electric operation with the P, turn the operation with Z.  
 3.L—Standard M—Relatively high marks broken type H-- high marks broken type

### Form1. Tripping Device Mode and Attachment Code

The over-current tripping	Alarm Accessories	All kinds of accessories							
		Nothing	The Shunt Tripping Device	The auxiliary contact	Under Voltage Trip	The auxiliary Contact --The Shunt Tripping Device	Under Voltage Trip-The auxiliary Contact- The Shunt Tripping Device	Two Groups Of Auxiliary Contacts	The auxiliary Contact- Under Voltage Trip
The instantaneous Tripping device	Nothing	220	210	220	230	240	250	260	270
	Alarm Contacts	208	218	228	238	248		268	278
Complex trip	Nothing	300	310	320	330	340	350	360	370
	Alarm Contacts	308	318	328	338	348		368	378

## Specifications And Main Parameters

### ● Molded Case Circuit Breaker Rating-Form2

Frame Degree Rated	Conventional Thermal Current	Level Of Short Circuit-Breaking Capacity	Short Circuit Breaking Capacity	Icu/Ics (KA)	Number Of Poles	Circuit Breaker Of Rated Current
			AC400V			
63	63	L	25/18		Diode Tripolar Quadrupole	6、10、16、 20、25、32、 40、50、63
		M	50/35			
100	100	L	35/22	10/5		10、16、20、 25、32、40、 50、63、80、 100
		M	50/35	20/10		
		H	80/50			
225	225	L	35/25	10/5		100、125、 160、180、 200、225
		M	50/35	20/10		
		H	85/50			
400	400	L	50/35	15/8		225、250、 315、350、 400
		M	65/42	20/10		
		H	00/65			
630	630	L	50/35	15/8		400、500、 630
		M	65/42	20/10		
		H	100/65			
800	800	L	50/35	15/8	630、700、 800	
		M	65/42	20/10		
		H	100/65			

## Product Categories

- ◎ According to level of the breaking capacity of rated maximal short circuit.
  - 1)Type L(Standard type),
  - 2)Type H(High type)
  - 3)Type M(Higher breaking type)
 Features such as compactness, high breaking capacity, short arc-cover and shock resistance, etc.
- ◎ According to function :
  - 1)Used in Power distribution
  - 2)Used in motor protection
- ◎ According to the number of pole:
  - 1)Diode
  - 2)Tripolar
  - 3)Quadrupole
- ◎ According to Current Tripping Device:
  - 1)Instantaneous Tripping Device
  - 2)Duplex Tripping Device
- ◎ According to Rated Current Of Overcurrent Release:
  - 1)SMS-63: 6、10、16、20、25、32、40、50、63A of eight kinds
  - 2)SMS-100: 10、16、20、25、32、40、50、63、80、100A of nine kinds
  - 3)SMS-225: 100、125、160、180、200、225A of six kinds
  - 4)SMS-400: 225、250、315、350、400A of five kinds
  - 5)SMS-630: 400、500、630A of three kinds
  - 6)SMS-800: 630、700、800A of three kinds
- ◎ According to Method Of Connecting Wire:
  - 1)Front Wiring Panel
  - 2)After Wiring Panel
  - 3) Plug-in
- ◎ According to Operation Method:
  - 1)Handle Direct Operation
  - 2)Electric Operation
  - 3)Rotation

**Overcurrent Protection Feature**

- Form3:Overcurrent Tripping Device in case of overload characteristic

	I/Ir	Appointed Time			Starting State
		In(A)			
		In≤63	63≤In≤225	In>225	
Conventional Non-tripping Current	1.05	1h	2h		Cold
Conventional tripping Current	1.3	1h	2h		Hot
Return Current	3.0	5s	8s	12s	Cold

- Form4:Motor Protection With Inverse Time Characteristic Disconnect

Test Current Name	I/Ir	Appointed Time		Starting State
		In(A)		
		In≤225	In>225	
Conventional Non-tripping Current	1.0	2h		Cold
Conventional tripping Current	1.2	2h		Hot
	1.3	4min	8min	Hot
	7.2			Cold

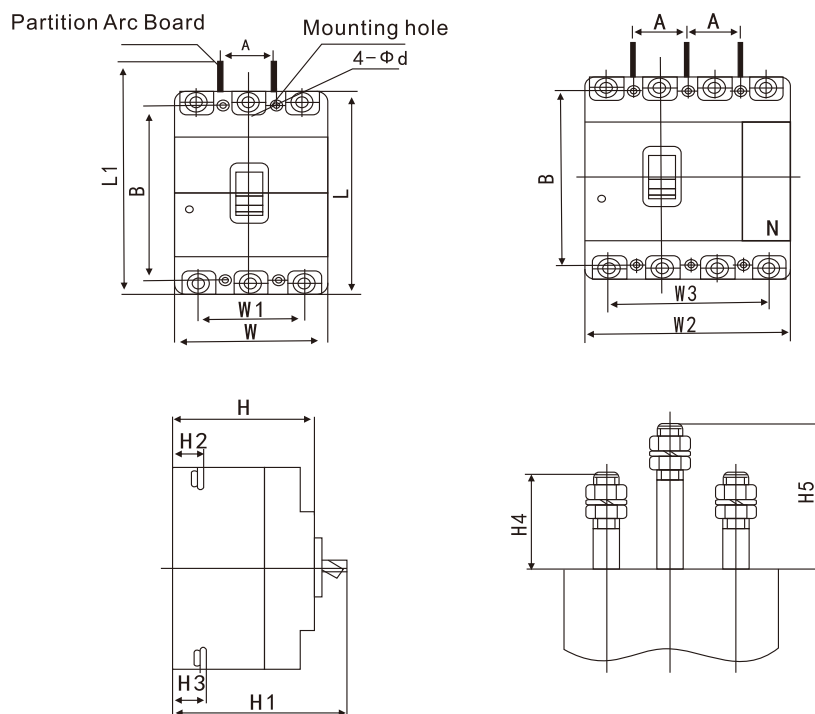
- Form5: Disconnect The Characteristic Tripolar Overload Release When Power Diode

Test Current Name	Setting Current Multiple	Appointed Time	Starting State
Conventional Non-tripping Current	Tripolar Energized	<2	Cold
Conventional tripping Current	Diode Energized	<2	Hot

- Form6:Protection Current Setting Value

Frame Degree Rated Current (Inm)	Distribution Protection	Motor Protection
63、100A	10In	12In
225、400、630、800A	5In and 10In	8In and 12In

## Model and Installation Size



	Model						
		MS7-125L	MS7-125M	MS7-100L	MS7-100M	MS7-225L	MS7-225M
Dimensions	C	85	85	84	84	102	102
	E	48	48	50.5	50.5	50	50
	F	22	22	22	22	22	22
	H	72	82	67	87	86	103
	H1	90	100	84	103	110	127
	H2	18	28	24	24	24	24
	L	135	135	155	155	165	165
	L1	233	235	255	255	360	360
	L2	117	117	136	136	144	144
	W	76(51/2P)	76(51/2P)	90(60/2P)	90(60/2P)	105	105
	W1	25	25	30	30	35	35
	W2	-	103	-	120	-	140
Installation Size	A	25	25	30	30	35	35
	B	117	117	130.5	130.5	126	126
	Φ d	4.5	4.5	4.5	4.5	5.5	5.5

		Model						
		MS7-400L/3P	MS7-400L/4P	MS7-630L/3P	MS7-630H/3P	MS7-800/3P	MS7-800M/3P	MS7-1250M/3P
		MS7-400M/3P	MS7-400M/4P	MS7-630M/3P	MS7-630R/3P	MS7-800/3P		
Dimensions	C	127.5	127.5	134	134.5	136	136	265.5
	C1	173.5	173.5	184.5	184.5	204	204	345.5
	E	88.5	88.5	89	89	81	81	97
	F	65	65	65.5	65	66	66	78
	H	107	107	112	112	116	116	141
	H1	162	162	164.5	164.5	168	168	202
	H2	38	40	41.5	42	41.5	41.5	58
	L	257	257	270.5	270.5	280	280	406
	L2	224	224	234	234	243	243	-
	W	150		182		210		210
	W1	48	48	58	58	70	70	70
	W2	-	197.5	-	240	-	280	-
Installation Size	A	44	44	58	58	70	70	70
	A1	-	50	-	58	-	-	-
	B	194	194	200	200	243	243	375
	Φd	7	7	7	7	7	7	10

**Connection Wire Cross-Sectional Area And Compatible With The Current Rating Of The Form 8:**

Rated Current(A)	16、20	32	40、50	80	100	125	160
Lead Section Area(m2)	2.5	6	10	25	35	50	75
Rated Current(B)	180、200、225	250	315	400	500	630	700、800
Lead Section Area(m2)	95	120	350	240	2×150	2×185	2×240

**Use And Protection**

- ⊙ Before Installation, Technical Parameters Listed On The Nameplate Breaker Should Check Compliance.
- ⊙ Various Characteristics Of Circuit Breakers and Accessories From The Manufacturer Setting and can not be adjusted in use.
- ⊙ Breaker can Handle In Three Position are Labeled ,Closed Off and Tripping Three States, when the handle is in the trip position, the circuit breaker handle should pill back and then buckle, then closing .