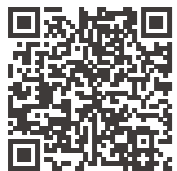


# SHENGLONG

## Product Selection Manual

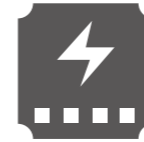




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SV	SV series indoor high- voltage vacuum circuit breaker	SNS	SNS Circuit breaker with residual current protection
SMT	SMT series universal circuit breaker	SNS DC	SNS DC series DC molded case circuit breakers
SMT HU	SMT HU series high- voltage intelligent universal circuit breaker	SNS HU	SNS HU series high- voltage AC circuit breakers
SNS	SNS thermal magnetic circuit breaker	SNX	<b>SNX thermal magnetic circuit breaker</b>
SNS	SNS electronic circuit breaker	SNX	SNX electronic circuit breaker

Partial performance



Intelligent Switchboards  
and Switchgear



Intelligent Energy Management  
and Components



Power and Energy  
EPC Services



Intelligent Operations  
and Maintenance System

Founded in 1979, Shenglong Electric is a leading company in the field of smart grid and intelligent energy management. We are committed to providing clients with comprehensive industry solutions of Intelligent Energy System Planning and Design, Intelligent Transmission and Distribution Equipment Manufacturing, Internet-based Power and Energy Engineering, Procurement, and Construction (EPC) services, and Operations and Maintenance services, helping clients improve the safety, reliability, and intelligence level of power and energy systems, as well as improving energy efficiency and reducing carbon emissions. We operate more than 50 countries and have built a sales and service network in over 30 countries all over the world. We have over 7000 employees, and were honored as Top 500 Asia Brand in 2013.

Shenglong Electric has 42 subsidiaries and factories, and 2 research institutes in China. We have five core offices in major cities of China including Beijing, Wuhan, Shanghai, Guangzhou, and Chongqing. The Beijing office, the Intelligent Business center at Greenland Center, which is called the tallest building in the country, has a world-leading smart office system, which are developed by Shenglong. Our Beijing plant, located at the Zhongguancun Technology Park, is a leading research and industrial base for intelligent power distribution and Internet-based energy solutions.



Quick selection table



# SV

## SV series indoor high- voltage vacuum circuit breaker

### Circuit breaker parameter table

SV12  
SV12 vacuum circuit breaker technical parameters

Init	Unit	Data			
Rated voltage					
Rated frequency					
Rated power frequency withstand voltage(1min)					
Rated lightning impulse withstand voltage(peak)					
Rated current					
Rated short circuit breaking current					
Rated short-time withstand current					
Rated peak withstand current					
Rated short circuit making current (peak)					
Rated dynamic stable current					
Rated single/back to back capacitor bank breaking current					
Rated short circuit current duration					
Rated short-circuit current breaking times	times	50(40kA and above 30)			
Switching time/arcingtime					
Rated operating sequence					
Rated operating voltage					
Percentage of DC component of rated short-circuit breaking current					
mechanical life	times				

Init	Unit	Data			
Contact opening distance					
Contact pressure spring travel					
Interphase center distance					
Opening and closing different periods					
Contact closing bounce time					
Opening rebound amplitude					
Average opening speed (6mm after opening)					
Average closing speed (6mm before closing)					
Opening time (at rated operating voltage)					
Closing time (at rated operating voltage)					
Main loop resistance					
Allowable wear thickness of dynamic and static contacts					

Init	Unit	Data			
Rated power of energy storage motor					
Rated voltage of energy storage motor					
Energy storage time					
Closing coil voltage					
Opening coil voltage					
Closing coil current					
Opening coil current					

# SV

## SV series indoor high-voltage vacuum circuit breaker

SV24  
SV24 vacuum circuit breaker technical parameters

Init		Unit	Data	

Notes: a. The breaker with rated current 3150A must install fan to cool  
 b. As standard of GB1984-2003 the E2 grade electrical endurance shall have 274 times of breaking short circuit current.

SV24  
SV24 vacuum circuit breaker mechanical characteristic parameters

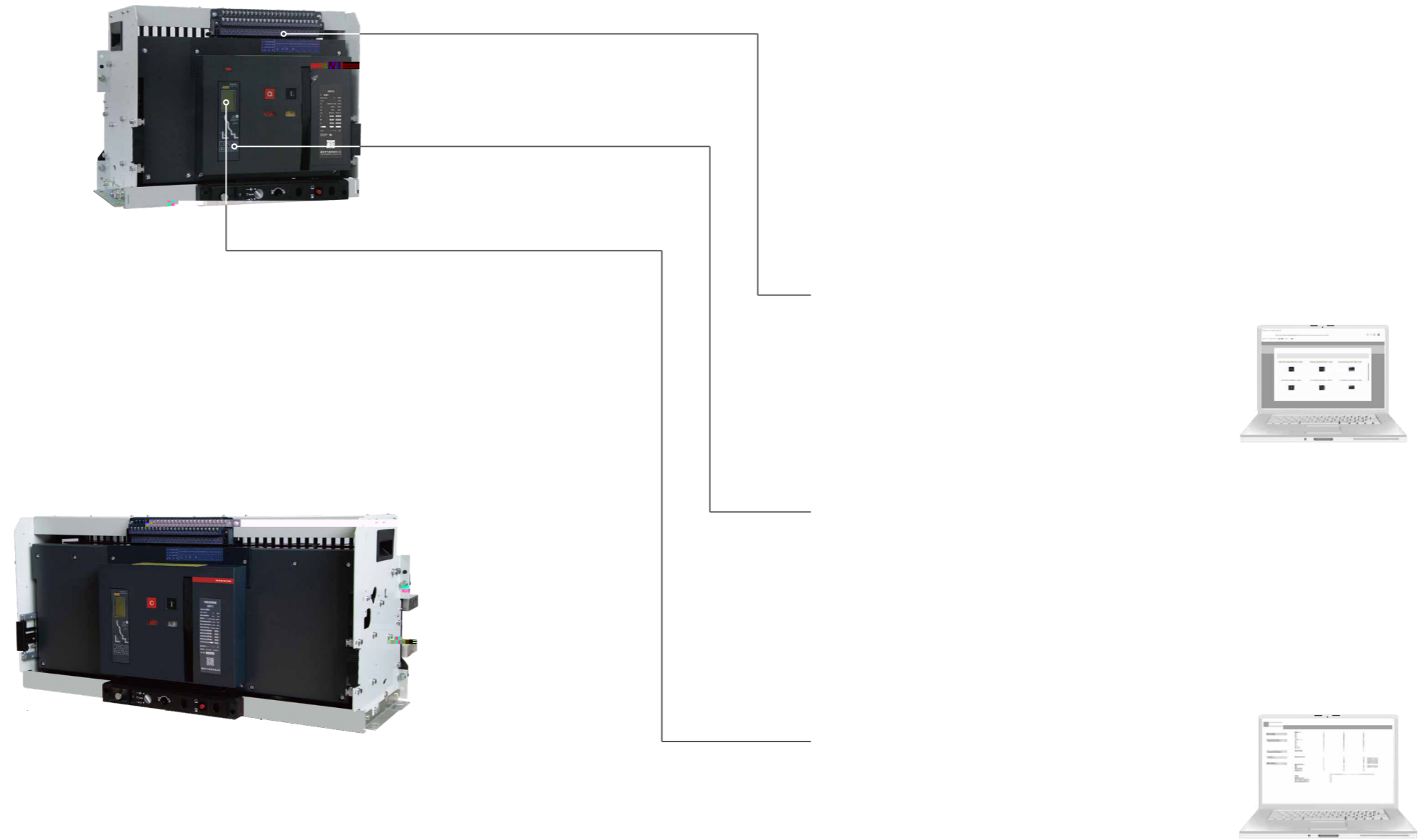
Init		Unit	Data	

### Operating mechanism parameters

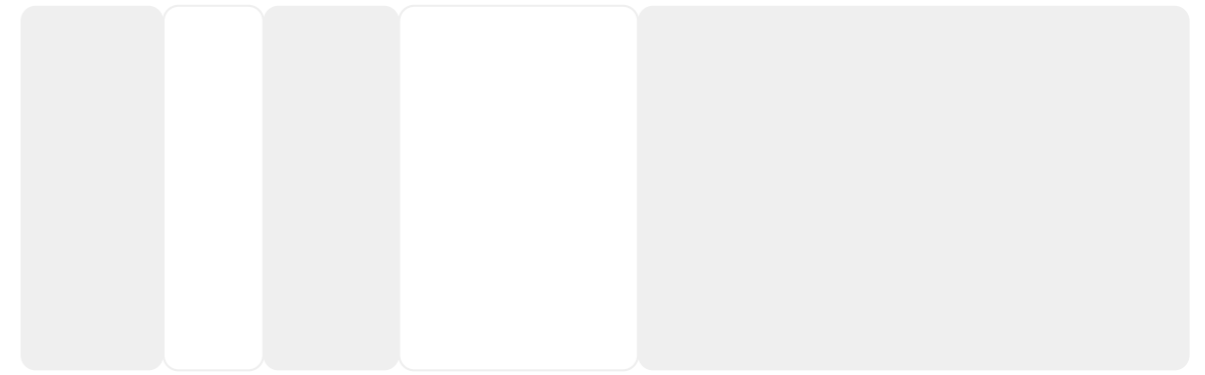
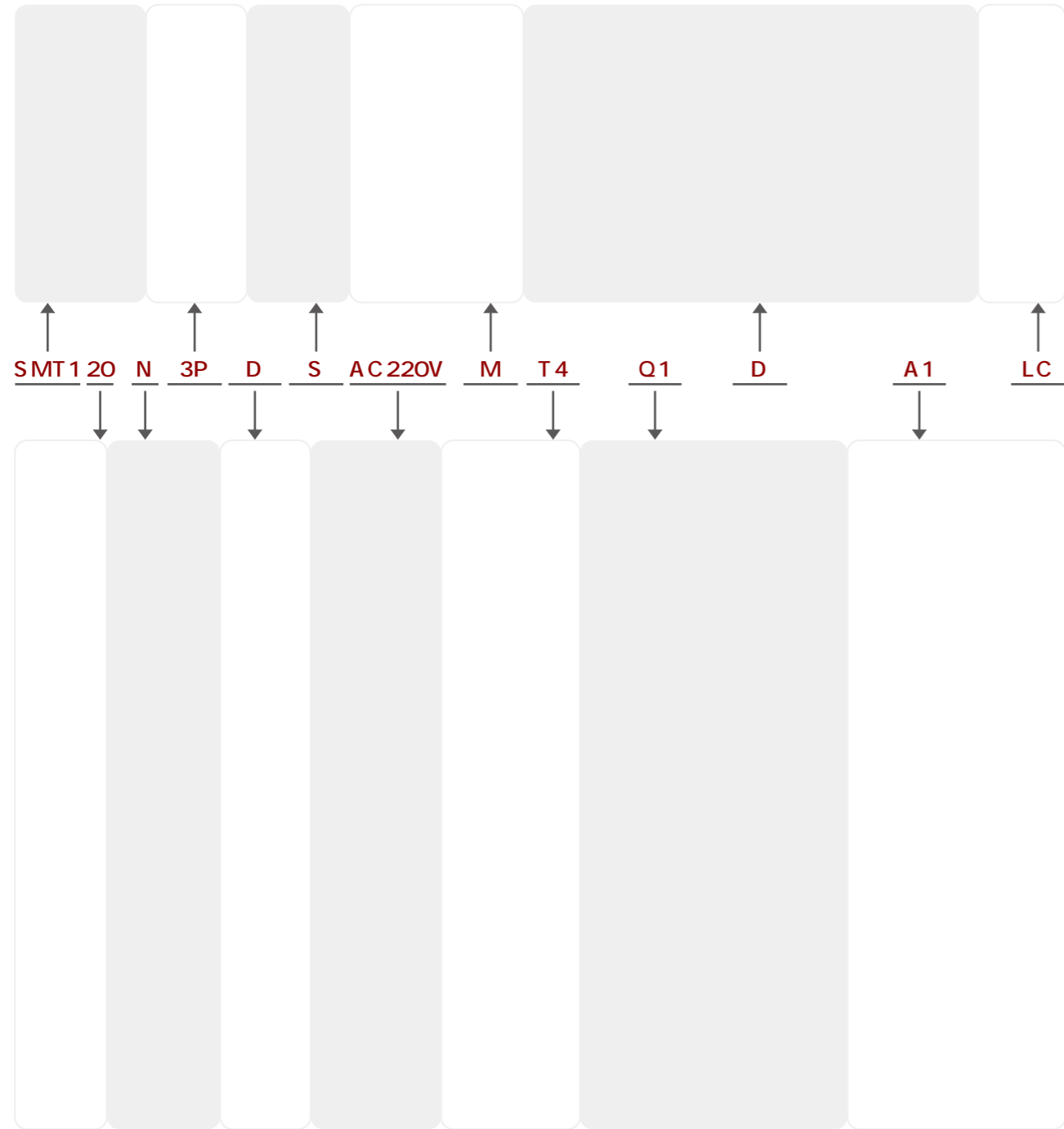
Init		Unit	Data	







SMT



# SMT

## SMT series universal circuit breaker

	AC400V	AC230V、DC110V	DC220V
	0.3s 0.5s 0.7s 1s 3s 5s		0.3-10.5s
	0.3s 0.5s 0.7s 1s 3s		0.3-0.75s
	3 3 4 4 5 5 6 6		
	3 3 4 4 5 5 6 6		
M			
3M			
2H			
3H			
			( 3M 3H
	1 1 2 1 3 2 5 3		
		2 3	
		2 3 1 3 3	
	N		

Optional accessories	Specifications
Undervoltage release	Working voltage: AC400V, AC230V, DC110V, DC220V Action time: instantaneous 0.3s, 0.5s, 0.7s, 1s, 3s, 5s combined delay range (0.3-10.5s); Delay and zero voltage delay: 0.3s, 0.5s, 0.7s, 1s, 3s combined delay range (0.3-0.75s)
Auxiliary switch	Switching type: 3 open and 3 closed, 4 open and 4 closed, 5 open and 5 closed, 6 open and 6 closed Independent type: 3 open and 3 closed, 4 open and 4 closed, 5 open and 5 closed, 6 open and 6 closed
Intelligent controller	M Current type, electric energy type, harmonic type
	3M Current type, voltage type, electric energy type, harmonic type
	2H Voltage type, electric energy type, generator electric energy type, communication
	3H Voltage type, electric energy type, harmonic type, generator electric energy type, generator harmonic type, communication
Other functions	Signal unit, required value function, contact wear, fault memory, closing times, clock (only available for 3M and 3H)
Interlocking mechanism	Opening position lock 1 lock 1 key, 2 lock 1 key, 3 lock 2 key, 5 lock 3 key
	Mechanical interlock Hard interlock: lever 2 interlock, lever 3 interlock Soft interlocking: wireline 2 interlocking, wireline 3 interlocking 1, wireline 3 interlocking 3
Other	Opening and closing button lock, door interlock, dust cover
External transformer	N-phase transformer, leakage transformer and ground current transformer
Power module	DC module
Relay module	Relay module

# SMT

## SMT series universal circuit breaker

Circuit breaker parameter table

Circuit breaker parameter table										
Rated current A	200-800		800-1600		2000		2500		3200	
	4000	5000	6300	8000	10000	12500	16000	20000	25000	32000
Fixed 3P	46	52	48.3	42	67	150				
Fixed 4P	50.2	57	53.3	41.4	76.7					
Draw out 3P	63	62.5	73.3	67	92	131.3	195	227.2		
Draw out 4P	81.5	69.8	88.6	78.7	114	200	223.3	223.3		

weight kg

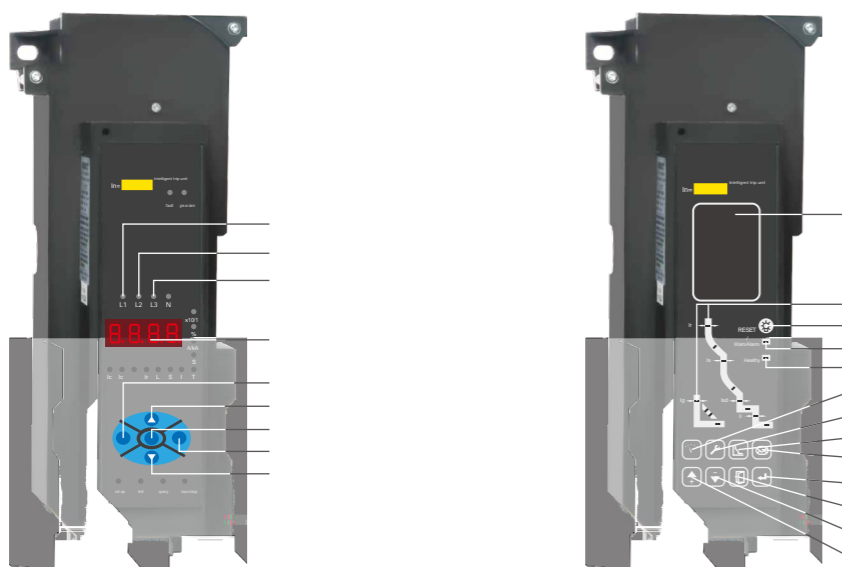
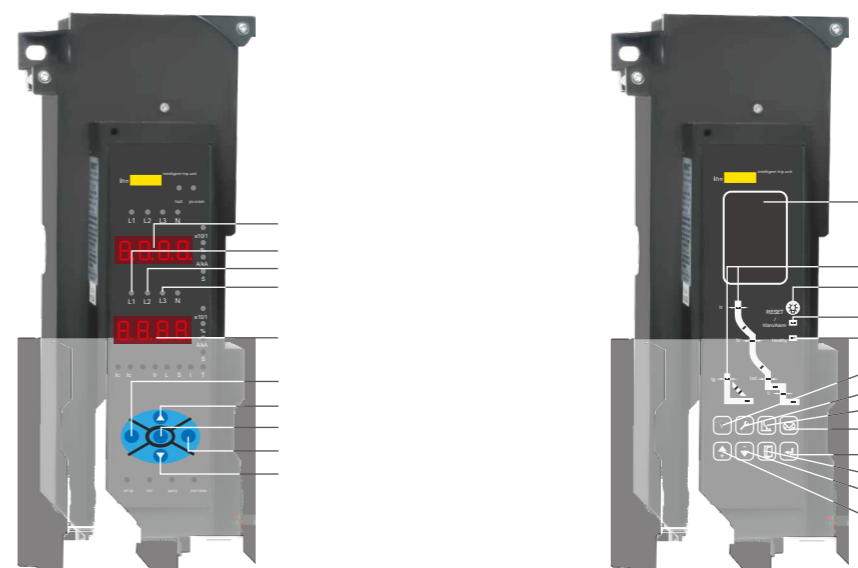
Rated current A	200-800	800-1600	2000	2500	3200	4000	5000	6300
Fixed 3P	46	52	48.3	42	67	150		
Fixed 4P	50.2	57	53.3	41.4	76.7			
Draw out 3P	63	62.5	73.3	67	92	131.3	195	227.2
Draw out 4P	81.5	69.8	88.6	78.7	114	200	223.3	223.3

Circuit breaker parameter table										
Rated current A	200-800		800-1600		2000		2500		3200	
	4000	5000	6300	8000	10000	12500	16000	20000	25000	32000
Fixed 3P	46	52	48.3	42	67	150				
Fixed 4P	50.2	57	53.3	41.4	76.7					
Draw out 3P	63	62.5	73.3	67	92	131.3	195	227.2		
Draw out 4P	81.5	69.8	88.6	78.7	114	200	223.3	223.3		

# SMT

## SMT series universal circuit breaker

Intelligent controller

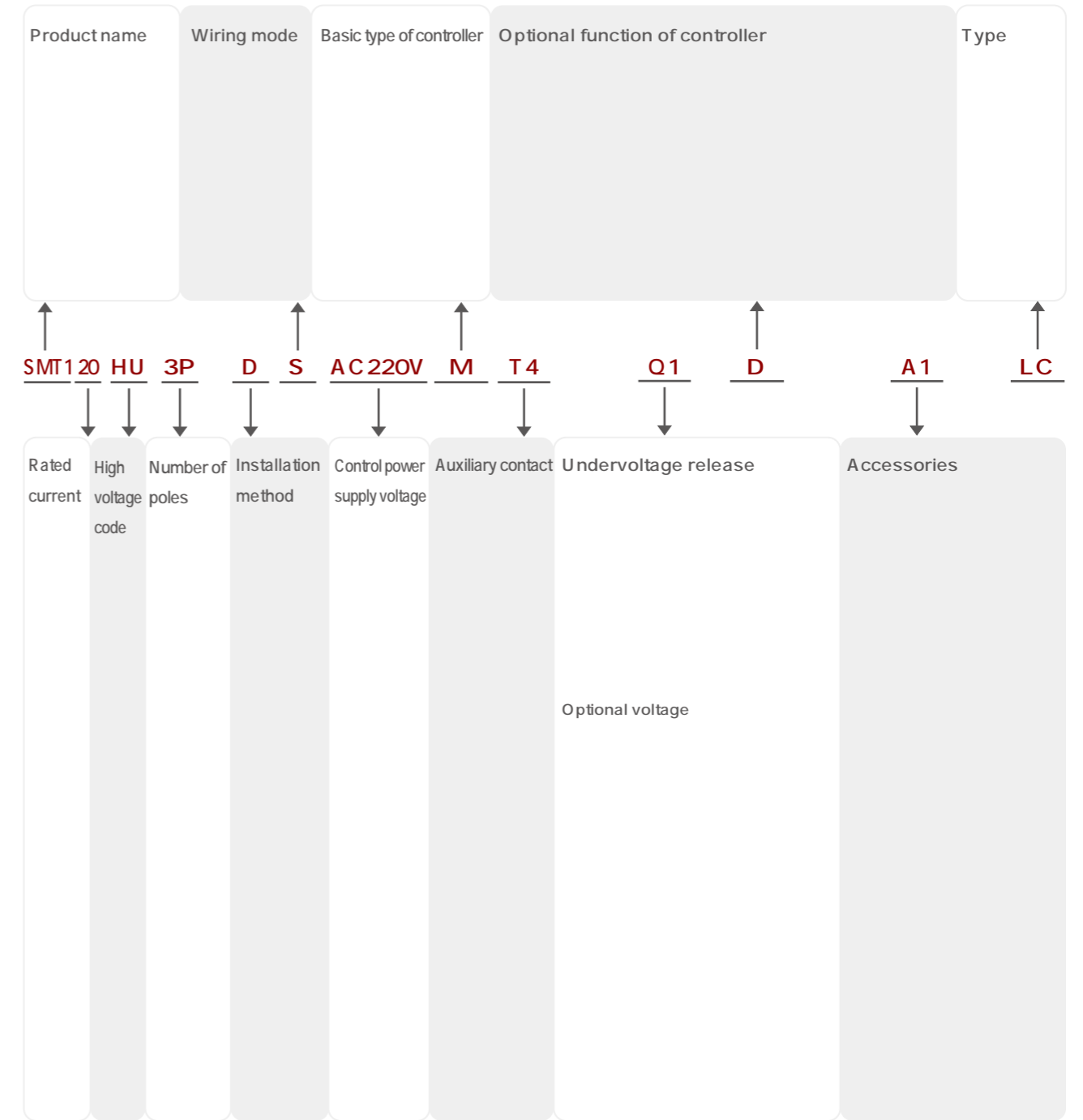
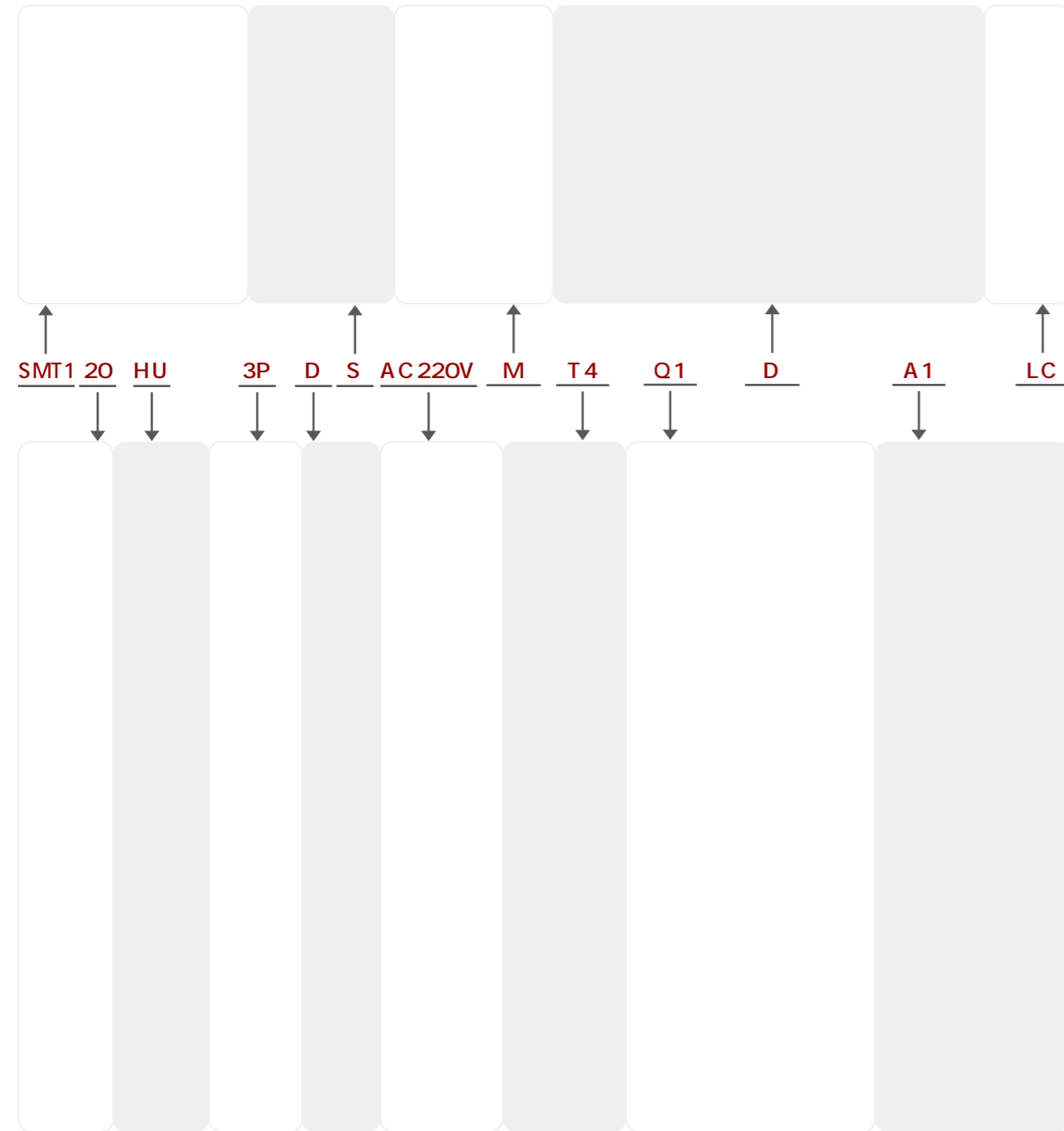




# SMT HU

## SMT HU series high-voltage intelligent universal circuit breaker

Quick selection table





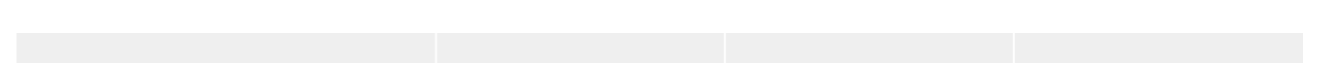
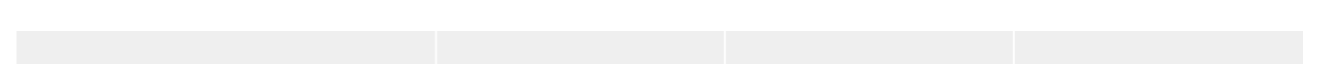
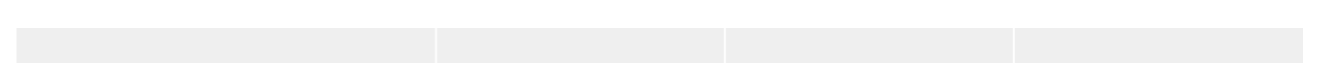
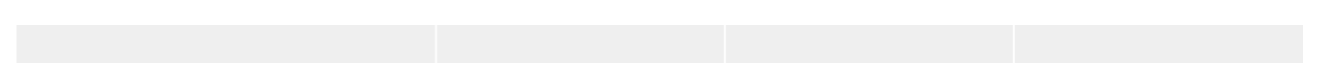
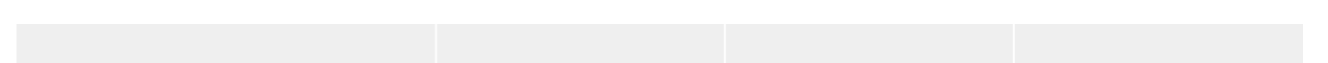
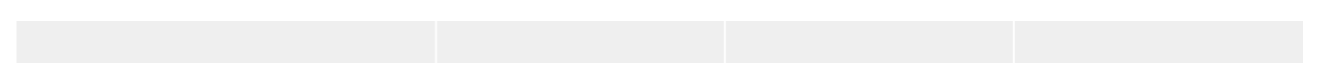
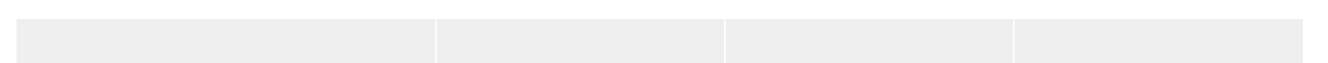
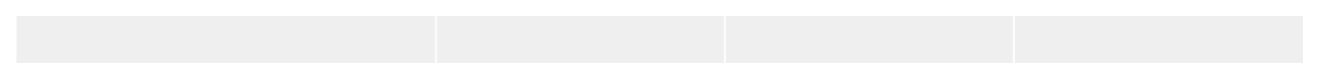
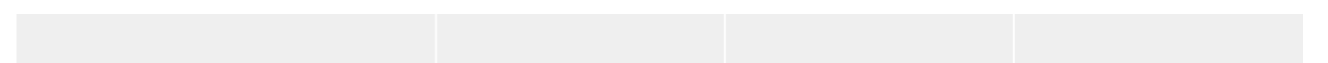
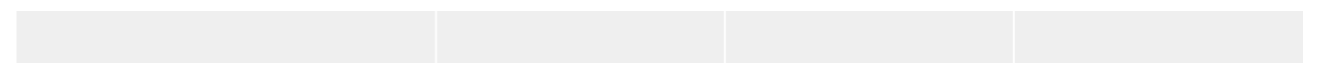
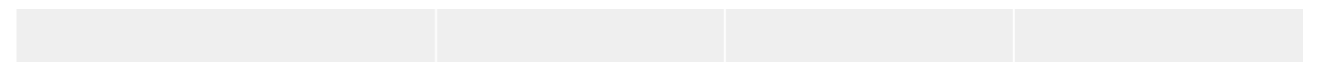
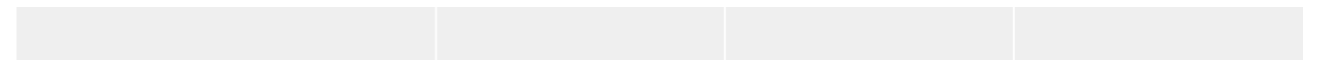
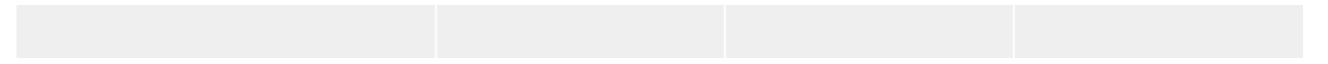
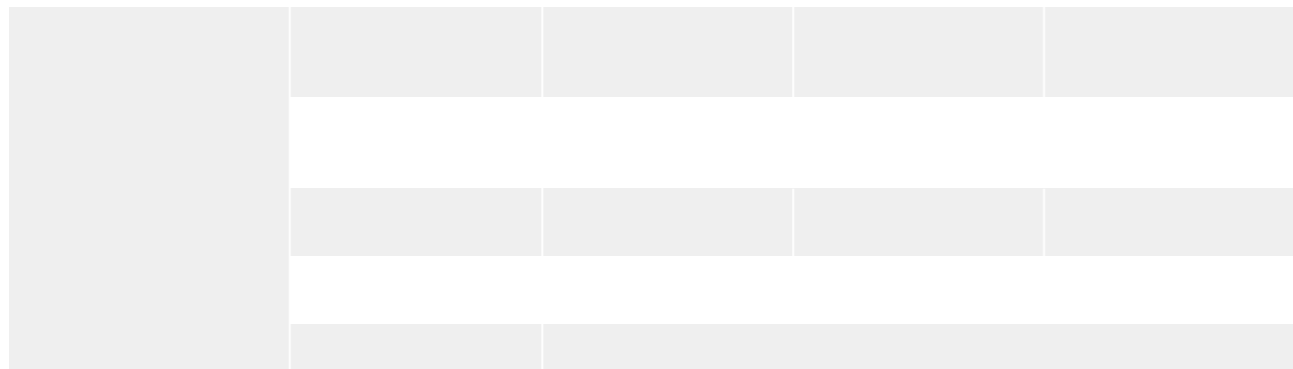
# SMT HU

## SMT HU series high- voltage intelligent universal circuit breaker

Circuit breaker parameter table

Technical Parameters					
Model	Rated Voltage (kV)	Rated Current (kA)	Rated Short-Circuit Current (kA)	Rated Breaking Capacity (kA)	Rated Making Capacity (kA)
SMT HU-12	12	12.5	31.5	31.5	31.5
SMT HU-17.5	17.5	12.5	31.5	31.5	31.5
SMT HU-24	24	12.5	31.5	31.5	31.5
SMT HU-36	36	12.5	31.5	31.5	31.5
SMT HU-50	50	12.5	31.5	31.5	31.5
SMT HU-72.5	72.5	12.5	31.5	31.5	31.5
SMT HU-110	110	12.5	31.5	31.5	31.5
SMT HU-154	154	12.5	31.5	31.5	31.5
SMT HU-220	220	12.5	31.5	31.5	31.5
SMT HU-252	252	12.5	31.5	31.5	31.5
SMT HU-330	330	12.5	31.5	31.5	31.5
SMT HU-405	405	12.5	31.5	31.5	31.5
SMT HU-550	550	12.5	31.5	31.5	31.5
SMT HU-800	800	12.5	31.5	31.5	31.5
SMT HU-1100	1100	12.5	31.5	31.5	31.5
SMT HU-1500	1500	12.5	31.5	31.5	31.5
SMT HU-2000	2000	12.5	31.5	31.5	31.5
SMT HU-2500	2500	12.5	31.5	31.5	31.5
SMT HU-3300	3300	12.5	31.5	31.5	31.5
SMT HU-4050	4050	12.5	31.5	31.5	31.5
SMT HU-5500	5500	12.5	31.5	31.5	31.5
SMT HU-8000	8000	12.5	31.5	31.5	31.5
SMT HU-11000	11000	12.5	31.5	31.5	31.5
SMT HU-15000	15000	12.5	31.5	31.5	31.5
SMT HU-20000	20000	12.5	31.5	31.5	31.5
SMT HU-25000	25000	12.5	31.5	31.5	31.5
SMT HU-33000	33000	12.5	31.5	31.5	31.5
SMT HU-40500	40500	12.5	31.5	31.5	31.5
SMT HU-55000	55000	12.5	31.5	31.5	31.5
SMT HU-80000	80000	12.5	31.5	31.5	31.5
SMT HU-110000	110000	12.5	31.5	31.5	31.5
SMT HU-150000	150000	12.5	31.5	31.5	31.5
SMT HU-200000	200000	12.5	31.5	31.5	31.5
SMT HU-250000	250000	12.5	31.5	31.5	31.5
SMT HU-330000	330000	12.5	31.5	31.5	31.5
SMT HU-405000	405000	12.5	31.5	31.5	31.5
SMT HU-550000	550000	12.5	31.5	31.5	31.5
SMT HU-800000	800000	12.5	31.5	31.5	31.5
SMT HU-1100000	1100000	12.5	31.5	31.5	31.5
SMT HU-1500000	1500000	12.5	31.5	31.5	31.5
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SMT HU-2500000	2500000	12.5	31.5	31.5	31.5
SMT HU-3300000	3300000	12.5	31.5	31.5	31.5
SMT HU-4050000	4050000	12.5	31.5	31.5	31.5
SMT HU-5500000	5500000	12.5	31.5	31.5	31.5
SMT HU-8000000	8000000	12.5	31.5	31.5	31.5
SMT HU-11000000	11000000	12.5	31.5	31.5	31.5
SMT HU-15000000	15000000	12.5	31.5	31.5	31.5
SMT HU-20000000	20000000	12.5	31.5	31.5	31.5
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SMT HU-40500000	40500000	12.5	31.5	31.5	31.5
SMT HU-55000000	55000000	12.5	31.5	31.5	31.5
SMT HU-80000000	80000000	12.5	31.5	31.5	31.5
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SMT HU-150000000	150000000	12.5	31.5	31.5	31.5
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SMT HU-250000000	250000000	12.5	31.5	31.5	31.5
SMT HU-330000000	330000000	12.5	31.5	31.5	31.5
SMT HU-405000000	405000000	12.5	31.5	31.5	31.5
SMT HU-550000000	550000000	12.5	31.5	31.5	31.5
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SMT HU-1500000000	1500000000	12.5	31.5	31.5	31.5
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SMT HU-2500000000	2500000000	12.5	31.5	31.5	31.5
SMT HU-3300000000	3300000000	12.5	31.5	31.5	31.5
SMT HU-4050000000	4050000000	12.5	31.5	31.5	31.5
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SMT HU-1500000000000	1500000000000	12.5	31.5	31.5	31.5
SMT HU-2000000000000	2000000000000	12.5	31.5	31.5	31.5
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SMT HU-55000000000000	55000000000000	12.5	31.5	31.5	31.5
SMT HU-80000000000000	80000000000000	12.5	31.5	31.5	31.5
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SMT HU-330000000000000	330000000000000	12.5	31.5	31.5	31.5
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SMT HU-550000000000000	550000000000000	12.5	31.5	31.5	31.5
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SMT HU-55000000000000000	55000000000000000	12.5	31.5	31.5	31.5
SMT HU-80000000000000000	80000000000000000	12.5	31.5	31.5	31.5
SMT HU-110000000000000000	110000000000000000	12.5	31.5	31.5	31.5
SMT HU-150000000000000000	150000000000000000	12.5	31.5	31.5	31.5
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SMT HU-330000000000000000	330000000000000000	12.5	31.5	31.5	31.5
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SMT HU-550000000000000000	550000000000000000	12.5	31.5	31.5	31.5
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SMT HU-8000000000000000000	8000000000000000000	12.5	31.5	31.5	31.5
SMT HU-11000000000000000000	11000000000000000000	12.5	31.5	31.5	31.5
SMT HU-15000000000000000000	15000000000000000000	12.5	31.5	31.5	31.5
SMT HU-20000000000000000000	20000000000000000000	12.5	31.5	31.5	31.5
SMT HU-25000000000000000000	25000000000000000000	12.5	31.5	31.5	31.5
SMT HU-33000000000000000000	33000000000000000000	12.5	31.5	31.5	31.5
SMT HU-40500000000000000000	40500000000000000000	12.5	31.5	31.5	31.5
SMT HU-55000000000000000000	55000000000000000000	12.5	31.5	31.5	31.5
SMT HU-80000000000000000000	80000000000000000000	12.5	31.5	31.5	31.5
SMT HU-110000000000000000000	110000000000000000000	12.5	31.5	31.5	31.5
SMT HU-150000000000000000000	150000000000000000000	12.5	31.5	31.5	31.5
SMT HU-200000000000000000000	200000000000000000000	12.5	31.5	31.5	31.5
SMT HU-250000000000000000000	250000000000000000000	12.5	31.5	31.5	31.5
SMT HU-330000000000000000000	330000000000000000000	12.5	31.5	31.5	31.5
SMT HU-405000000000000000000	405000000000000000000	12.5	31.5	31.5	31.5
SMT HU-550000000000000000000	550000000000000000000	12.5	31.5	31.5	31.5
SMT HU-800000000000000000000	800000000000000000000	12.5	31.5	31.5	31.5
SMT HU-1100000000000000000000	1100000000000000000000	12.5	31.5	31.5</	

SMT HU  
SMT HU series high- voltage intelligent universal circuit breaker

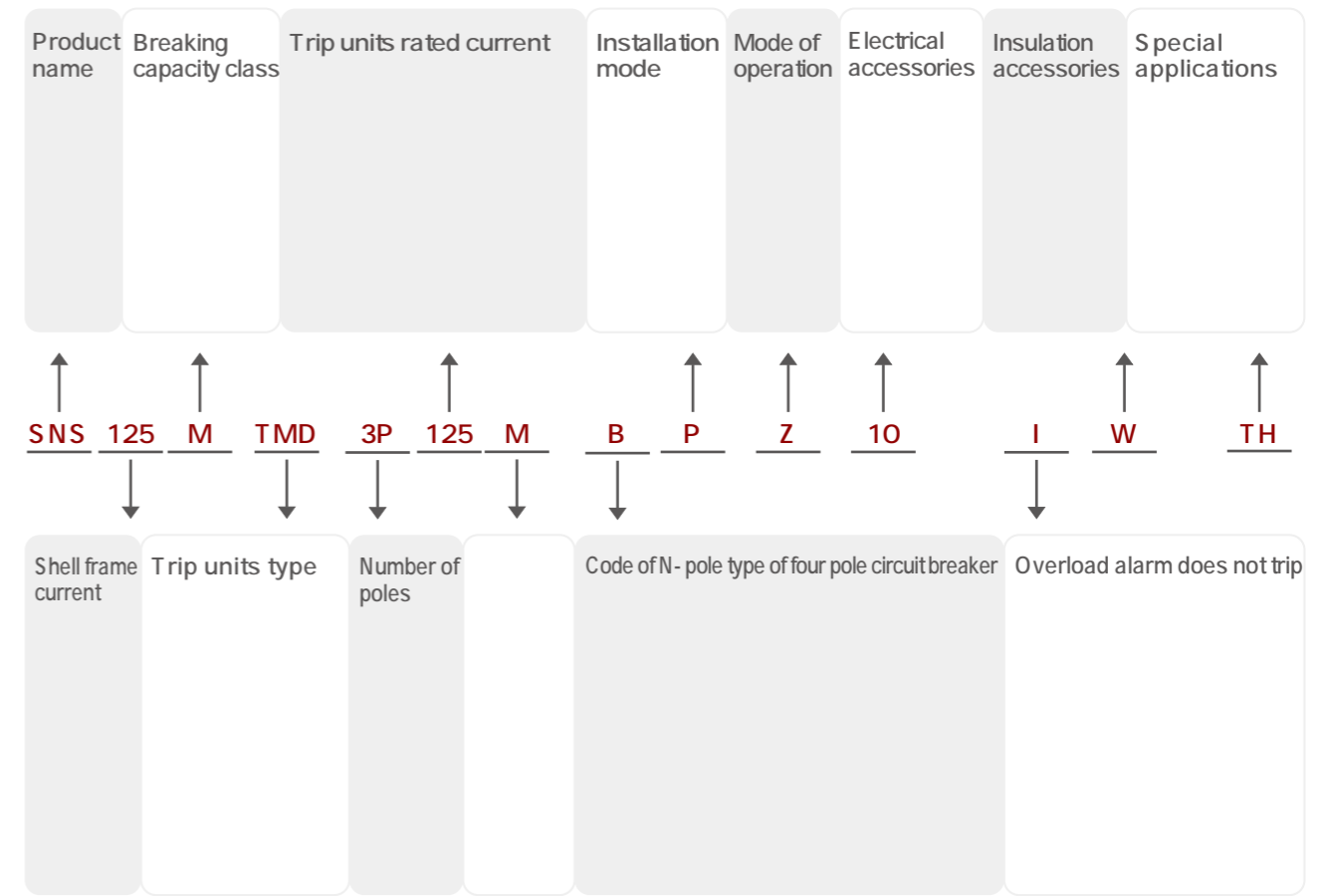
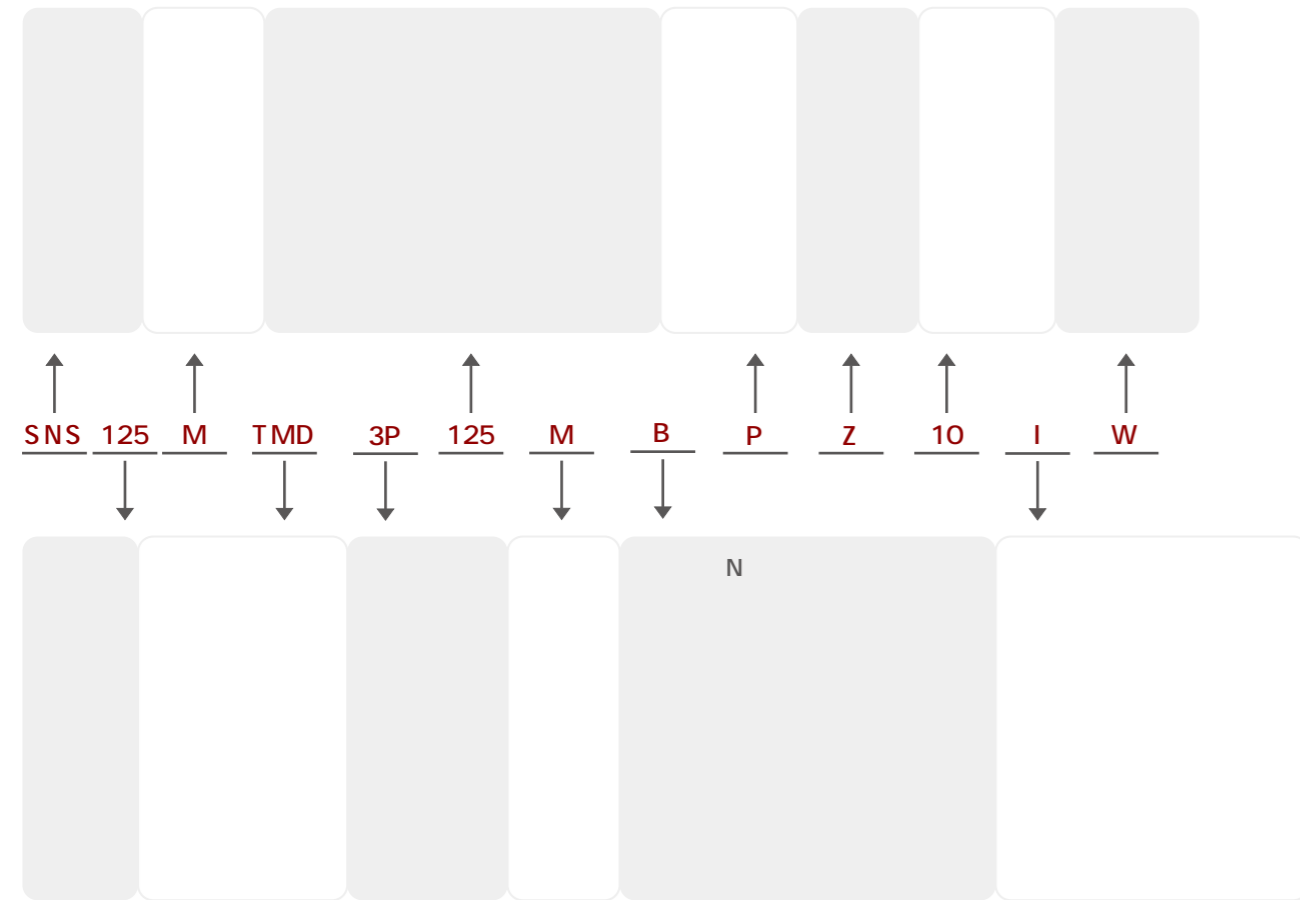




# SNS

## SNS thermal magnetic circuit breaker

Quick selection table

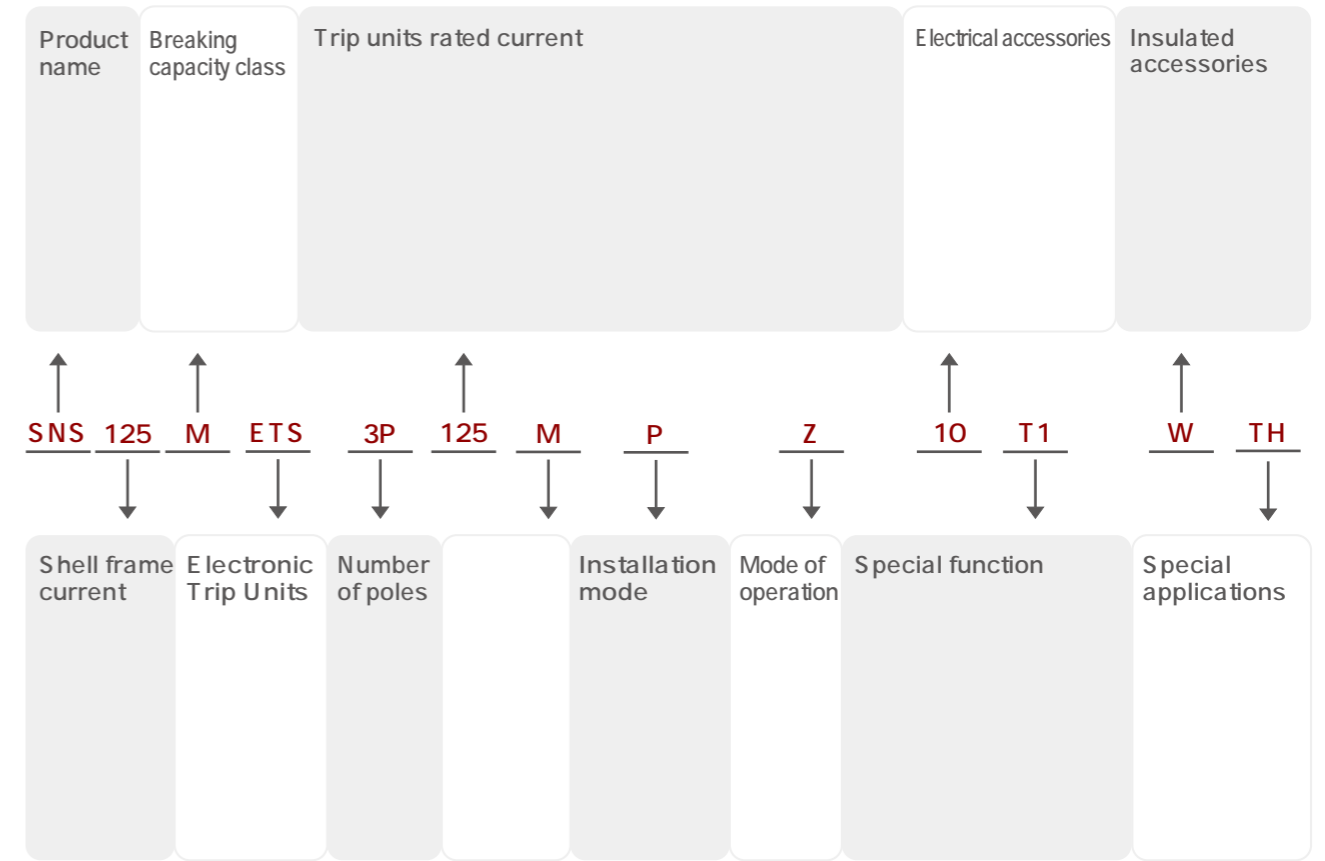
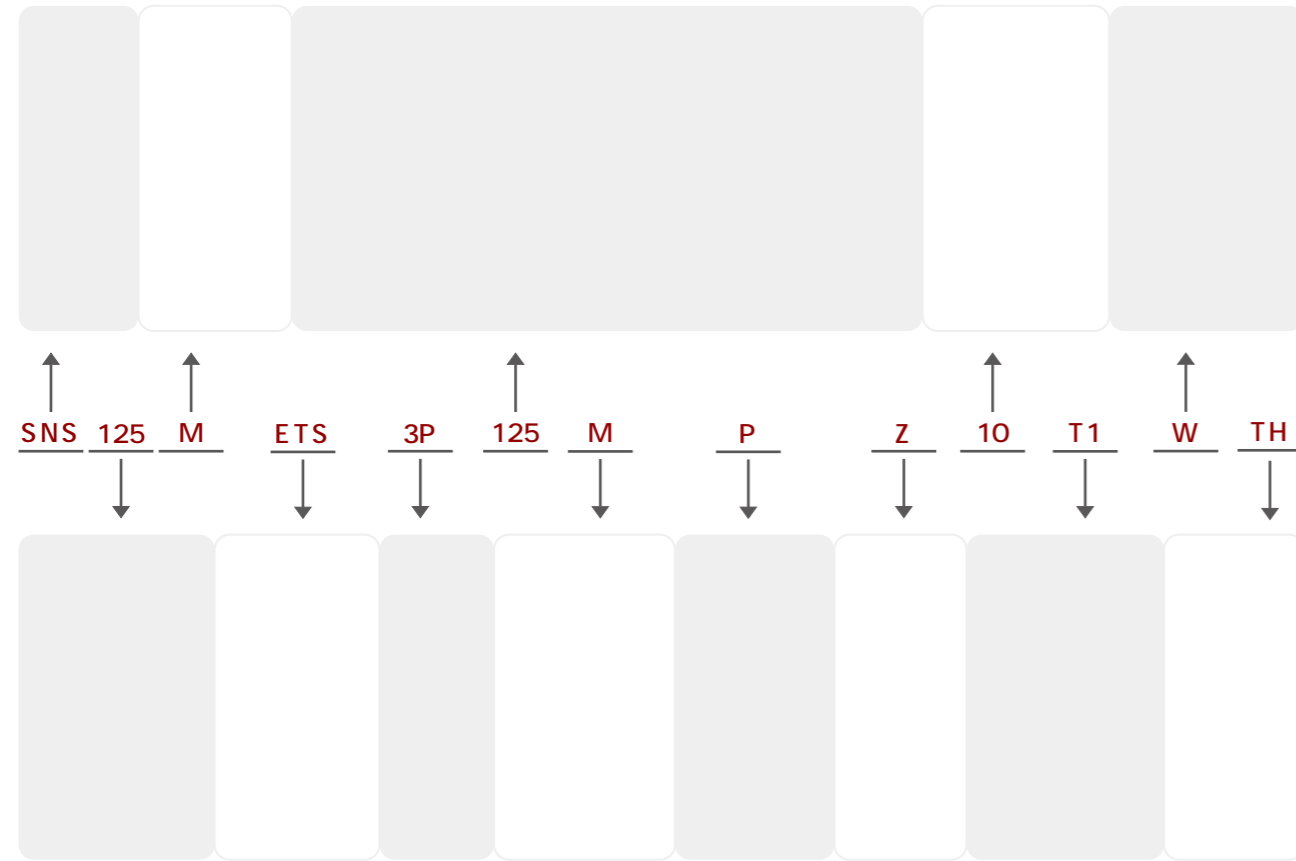




# SNS

## SNS electronic circuit breaker

Quick selection table



**SNS**  
**SNS electronic circuit breaker**

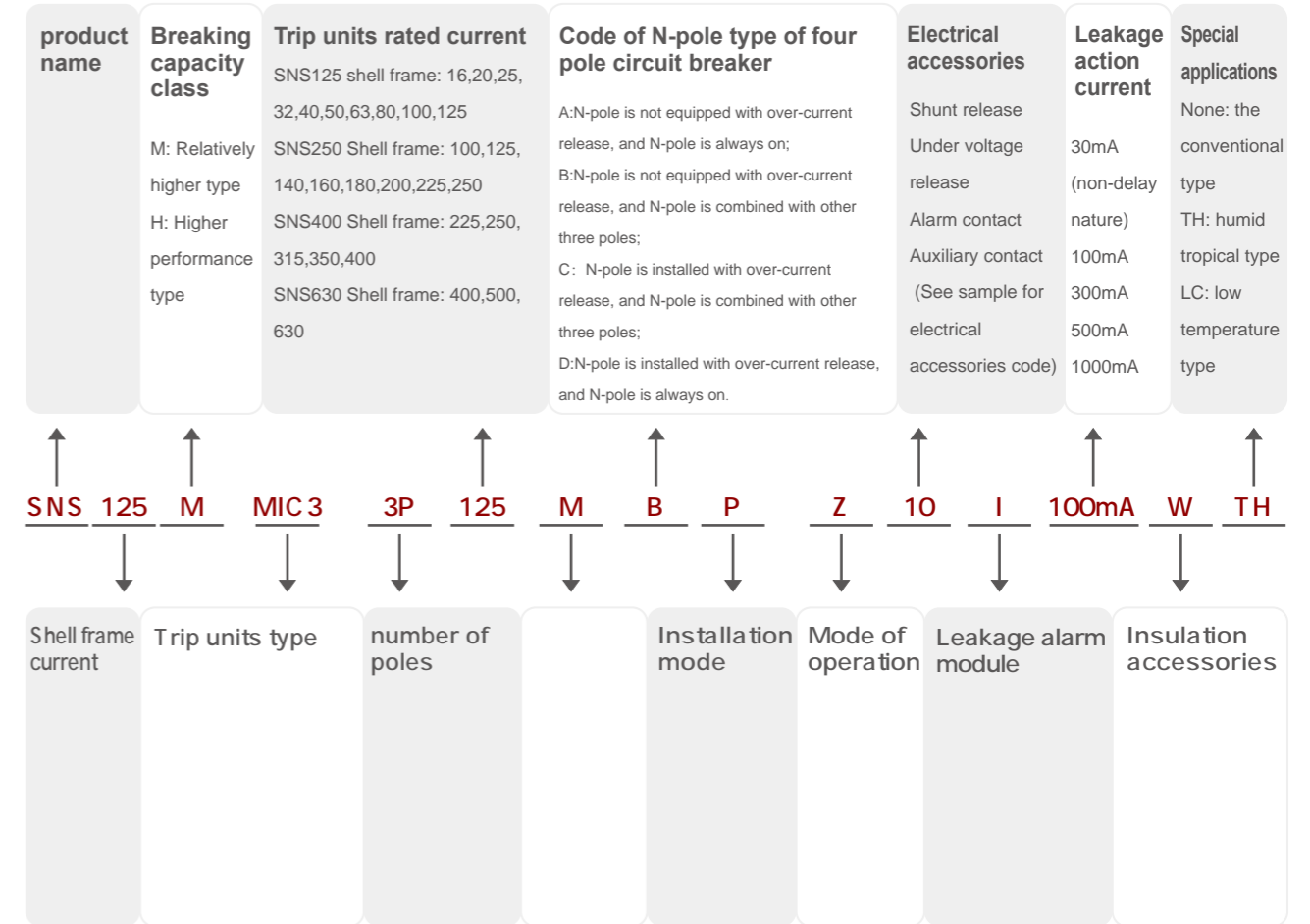
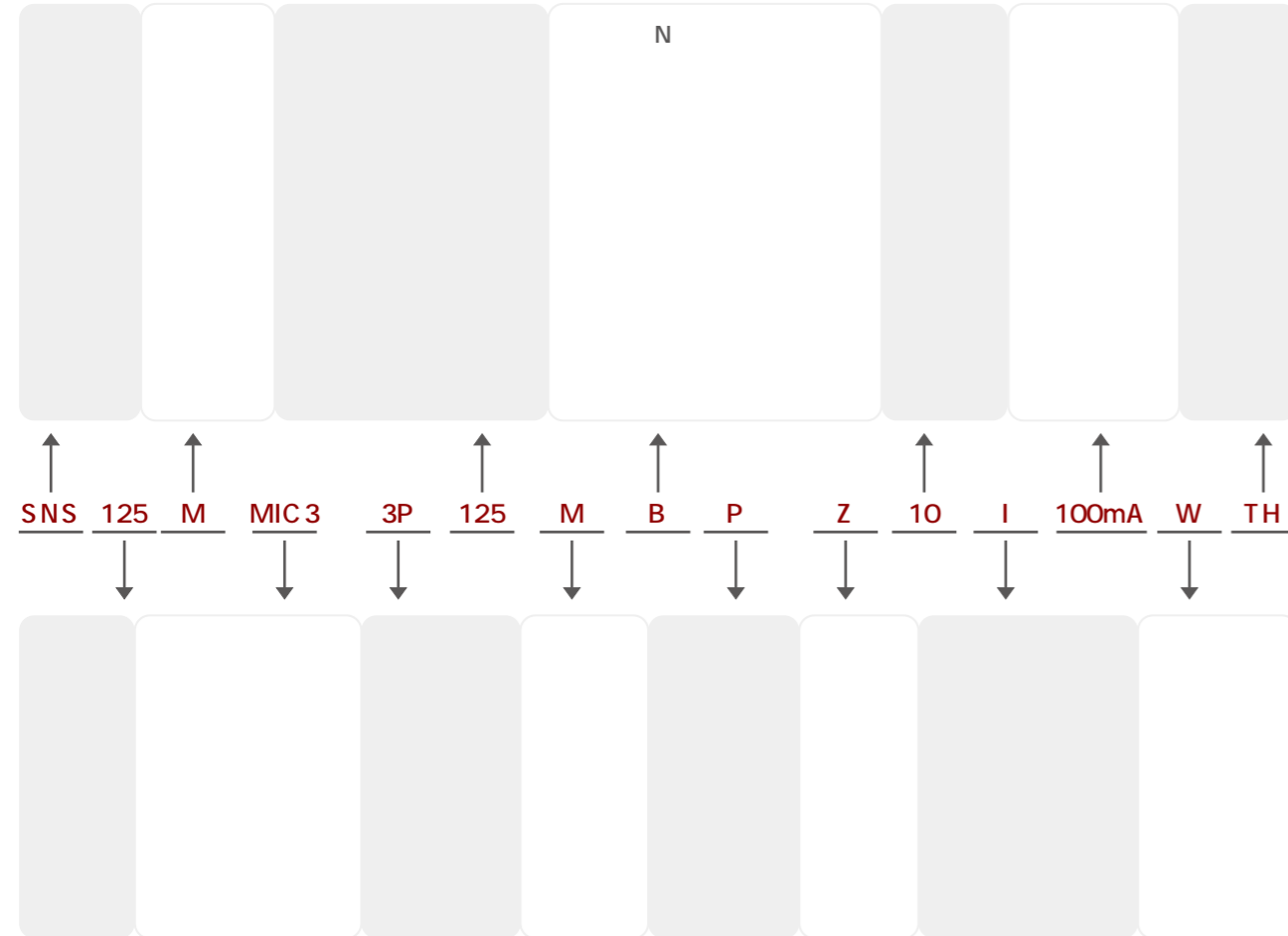
Circuit breaker parameter table



# SNS

## SNS Circuit breaker with residual current protection

Quick selection table





# SNS

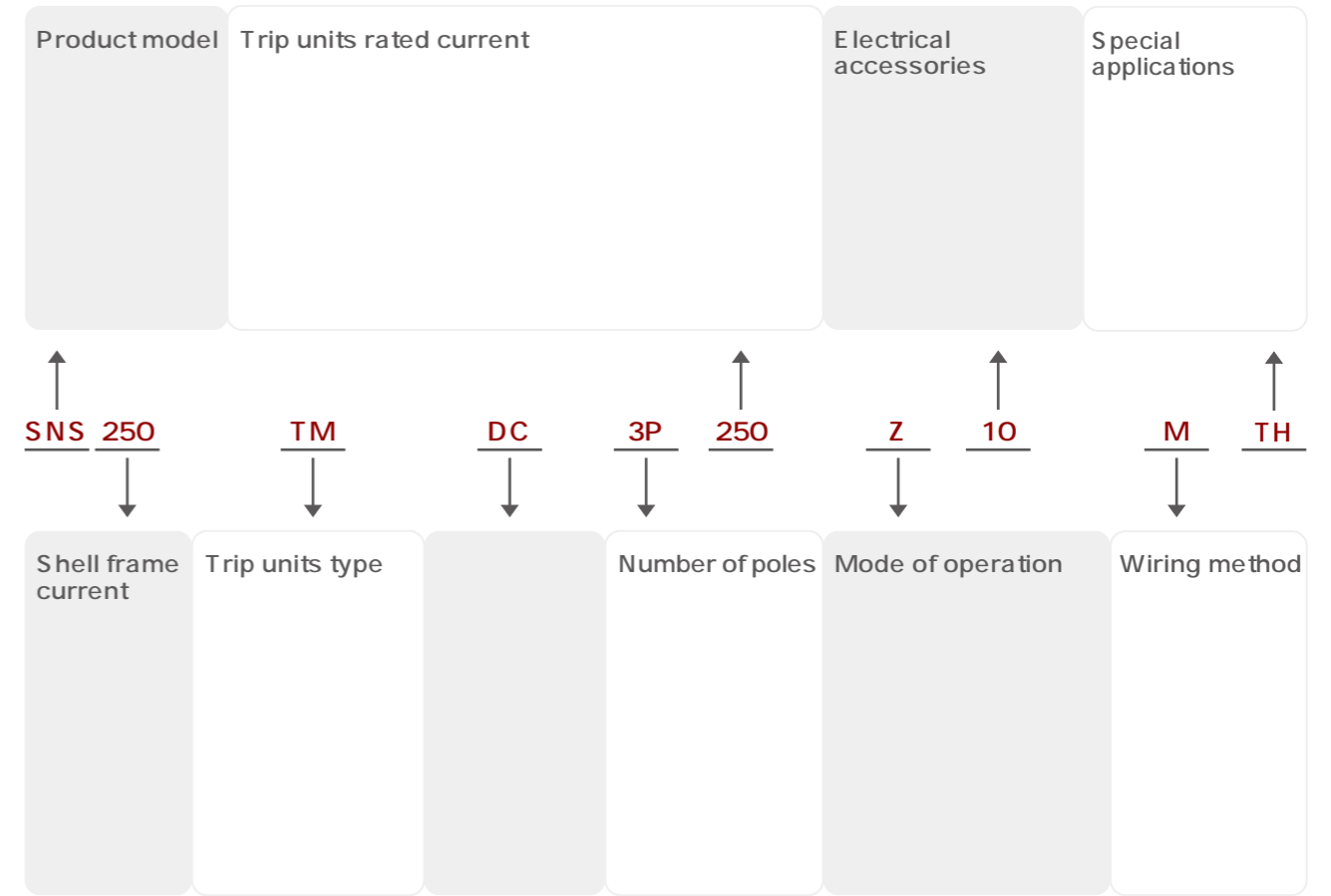
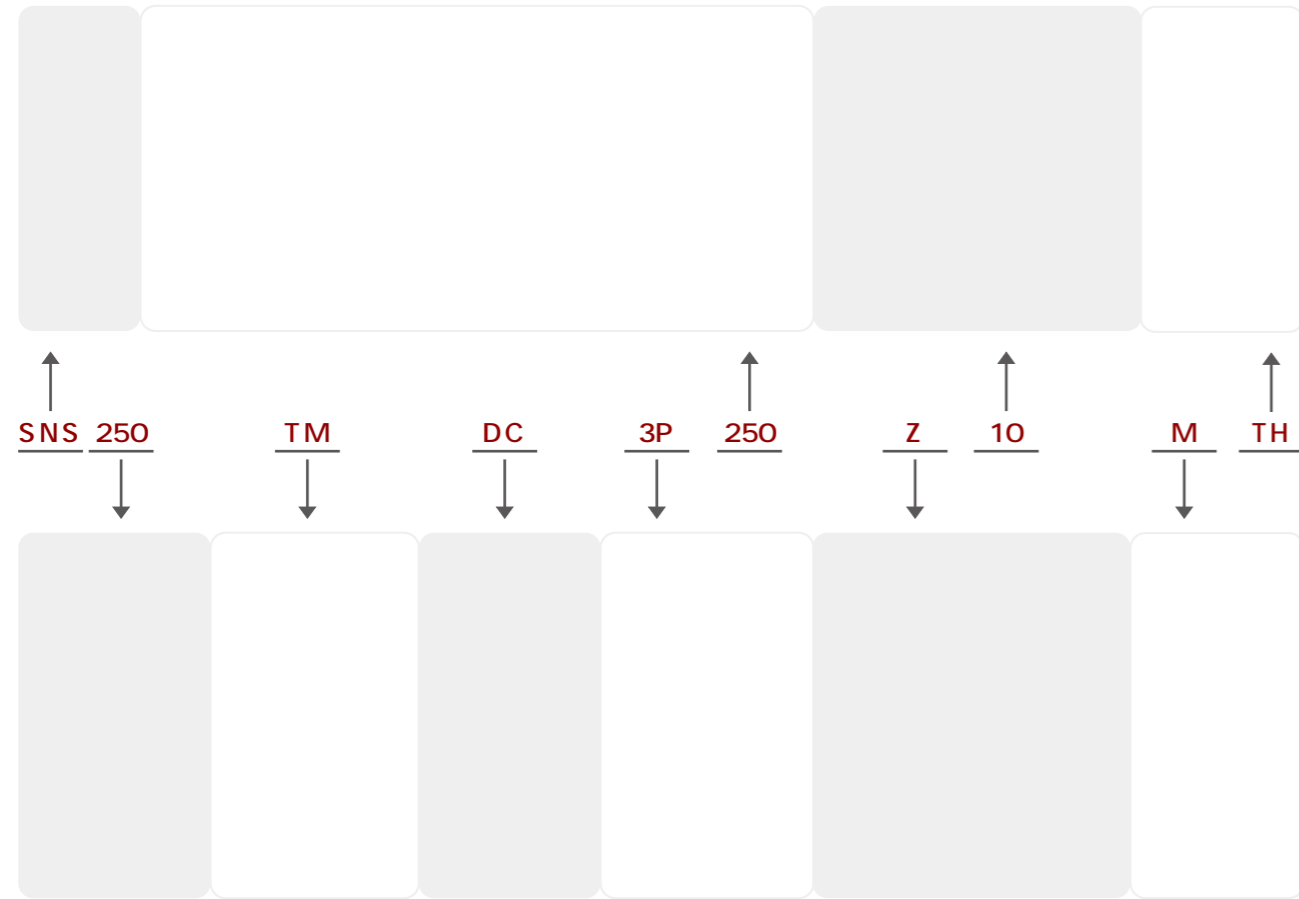
## SNS Circuit breaker with residual current protection

Circuit breaker parameter table

		SNS125		SNS250		SNS400		SNS630	
Number of poles		3 4		3 4		3 4		3 4	
Connect	Fixed	Front connection							
		Rear connection							
	Plug-in	Rear connection							
Rated current (A)		40	16/20/25/32/40/50/63/80/100/125		100/125/140/160/180/200/225/250		225/250/315/350/400		400/500/630
Rated insulation voltage (V)		800		800		800		800	
Rated impulse withstand voltage (kV)		8		8		8		8	
Rated operational voltage (V)		AC50Hz	400V	400V		400V		400V	
Rated limit short-circuit breaking capacity			M H	M H	M H	M H	M H	M H	M H
Rated operational short-circuit breaking capacity		AC50Hz	400V	50 70	50 70	65 70	65 70	65 70	70
Rated residual action current		I <sub>n</sub> (A)	AC AC type residual current protection A Type A residual current protection	0.03 /0.1/0.3/0.5 0.03 (non-delay type only) /0.1/0.3/0.5 0.03 /0.1/0.3/0.5 0.03 (non-delay type only) /0.1/0.3/0.5	0.03 /0.1/0.3/0.5 0.03 (non-delay type only) /0.1/0.3/0.5 0.03 /0.1/0.3/0.5 0.03 (non-delay type only) /0.1/0.3/0.5	0.1/0.3/0.5 0.1/0.3/0.5 0.1/0.3/0.5 0.1/0.3/0.5	0.1/0.3/0.5 0.1/0.3/0.5 0.1/0.3/0.5 0.1/0.3/0.5	0.3/0.5/1 0.3/0.5/1 0.3/0.5/1 0.3/0.5/1	
Rated residual non-action current		I <sub>no</sub> (A)		1/2I <sub>n</sub>	1/2I <sub>n</sub>	1/2I <sub>n</sub>	1/2I <sub>n</sub>	1/2I <sub>n</sub>	
Rated residual short circuit making (breaking) capacity		I <sub>m</sub> (kA)		1/4I <sub>cu</sub>	1/4I <sub>cu</sub>	1/4I <sub>cu</sub>	1/4I <sub>cu</sub>	1/4I <sub>cu4</sub>	

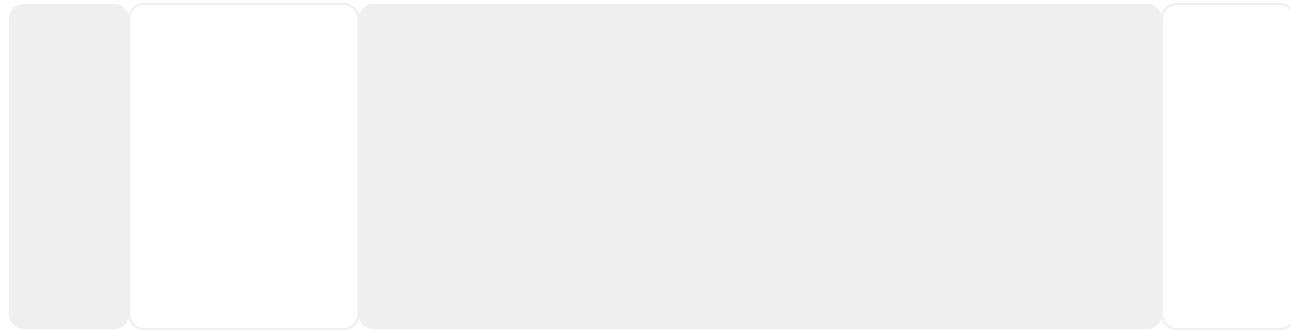
**SNS DC**  
**SNS DC series DC molded case circuit breakers**

Quick selection table





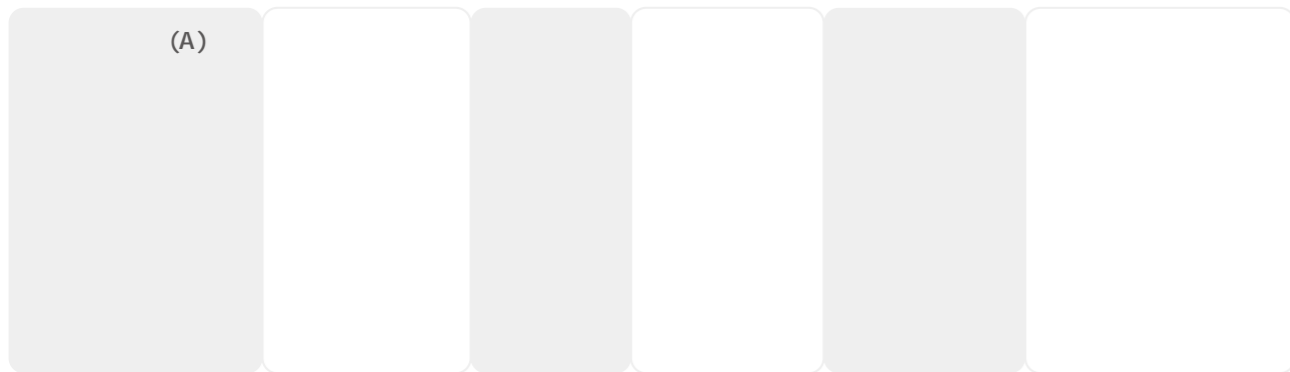
SNS HU  
SNS HU series high- voltage AC circuit breakers



SNS 250 TM

3P 250

10

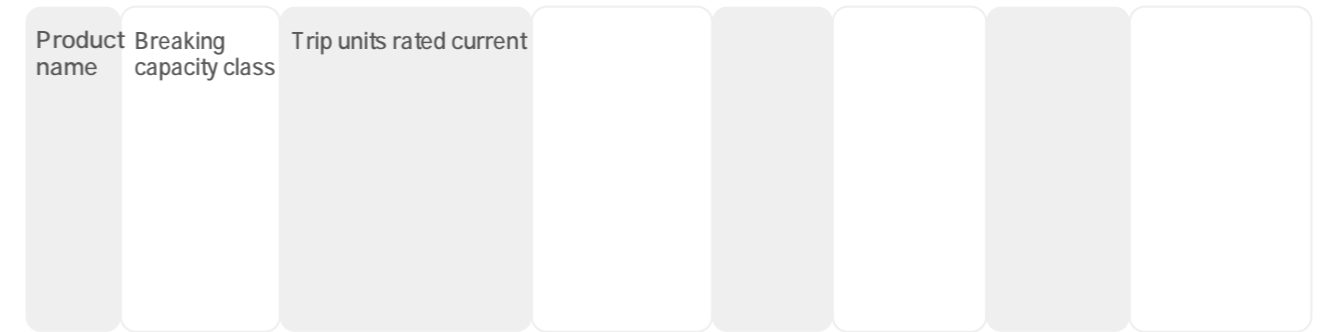
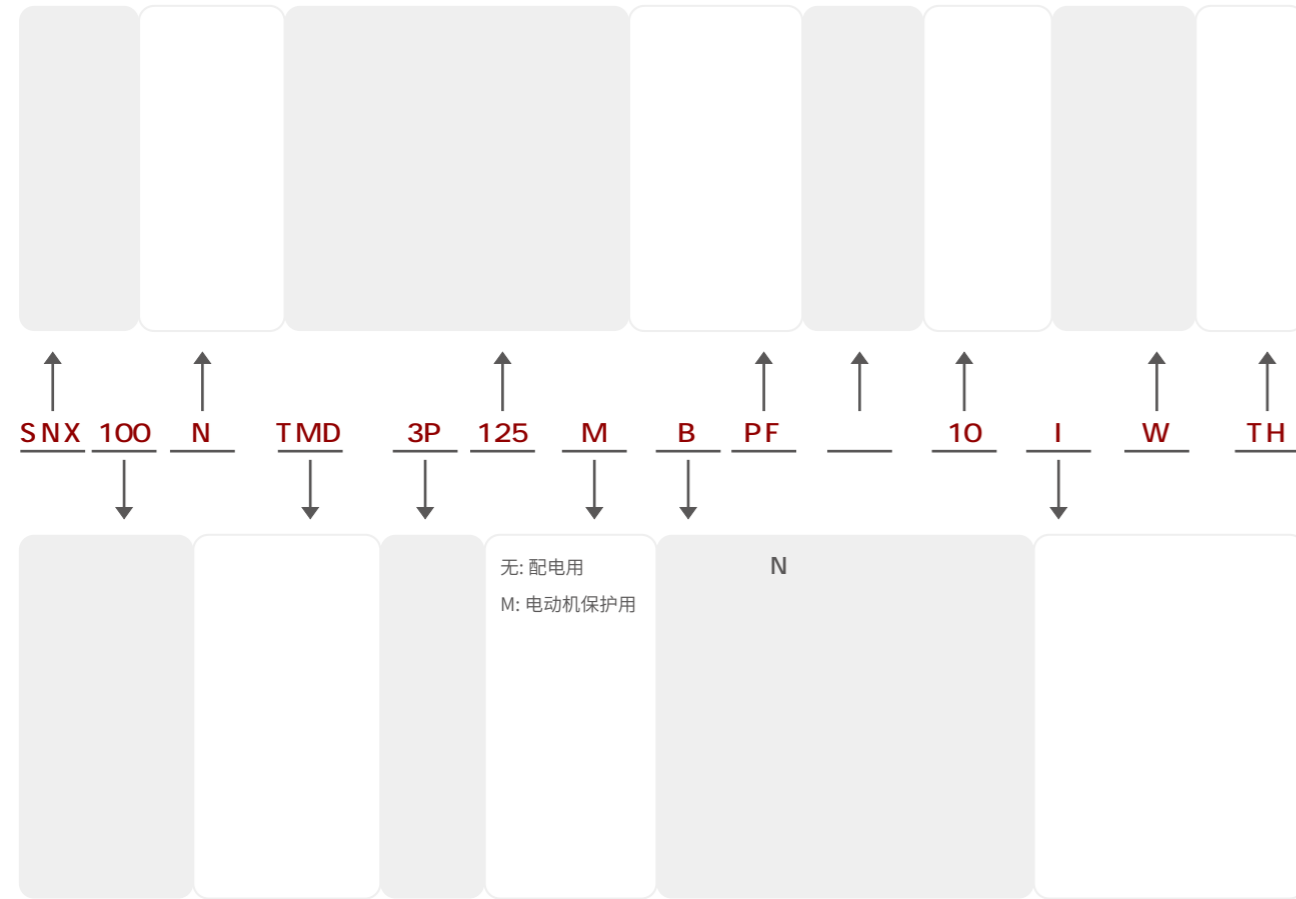




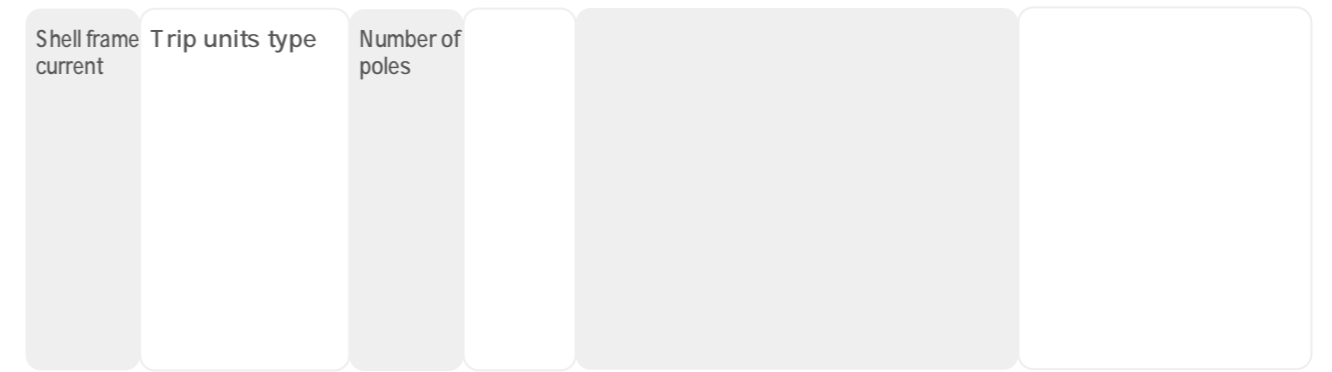
# SNX

## SNX thermal magnetic circuit breaker

Quick selection table



SNX 100 N TMD 3P 125 PF 10

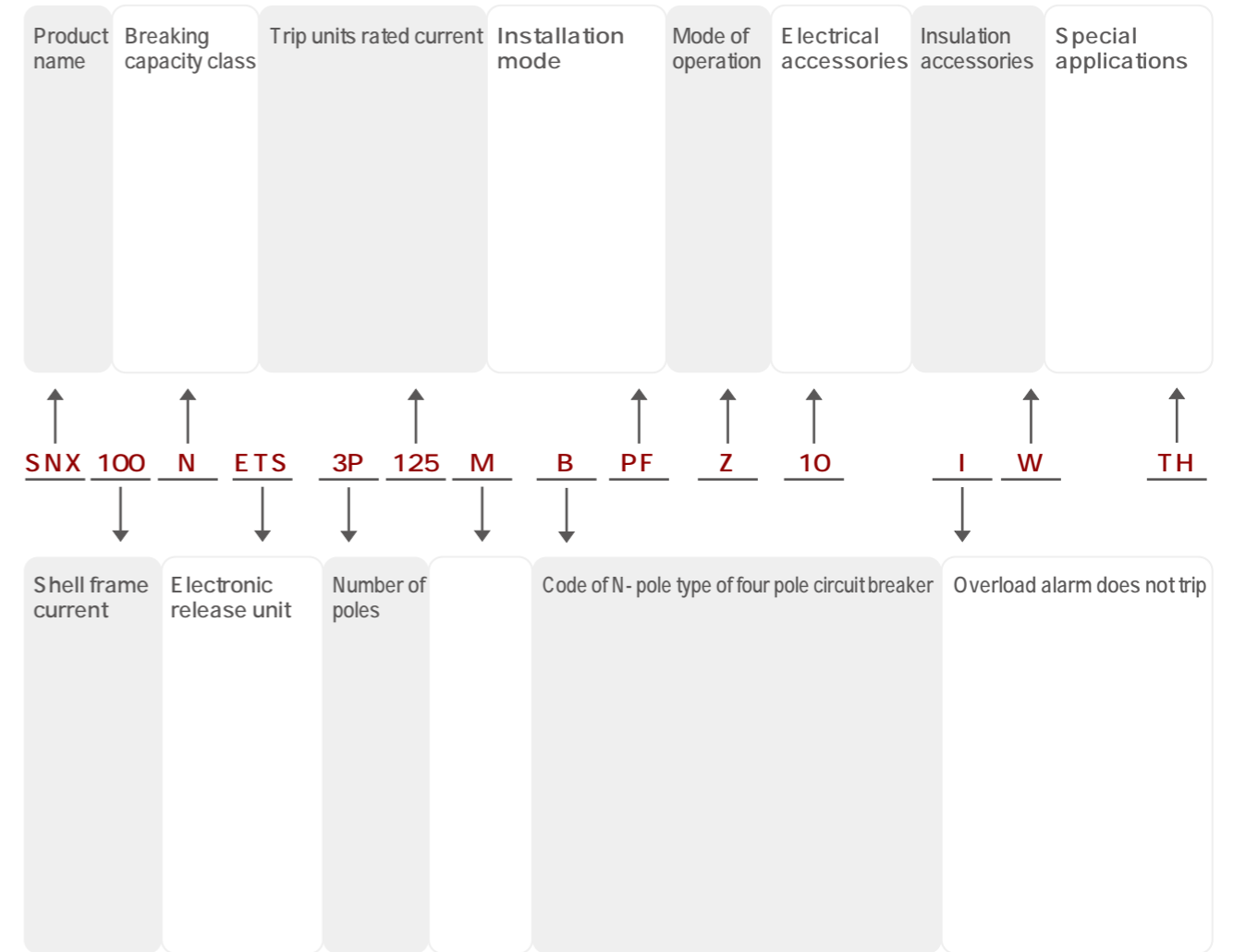
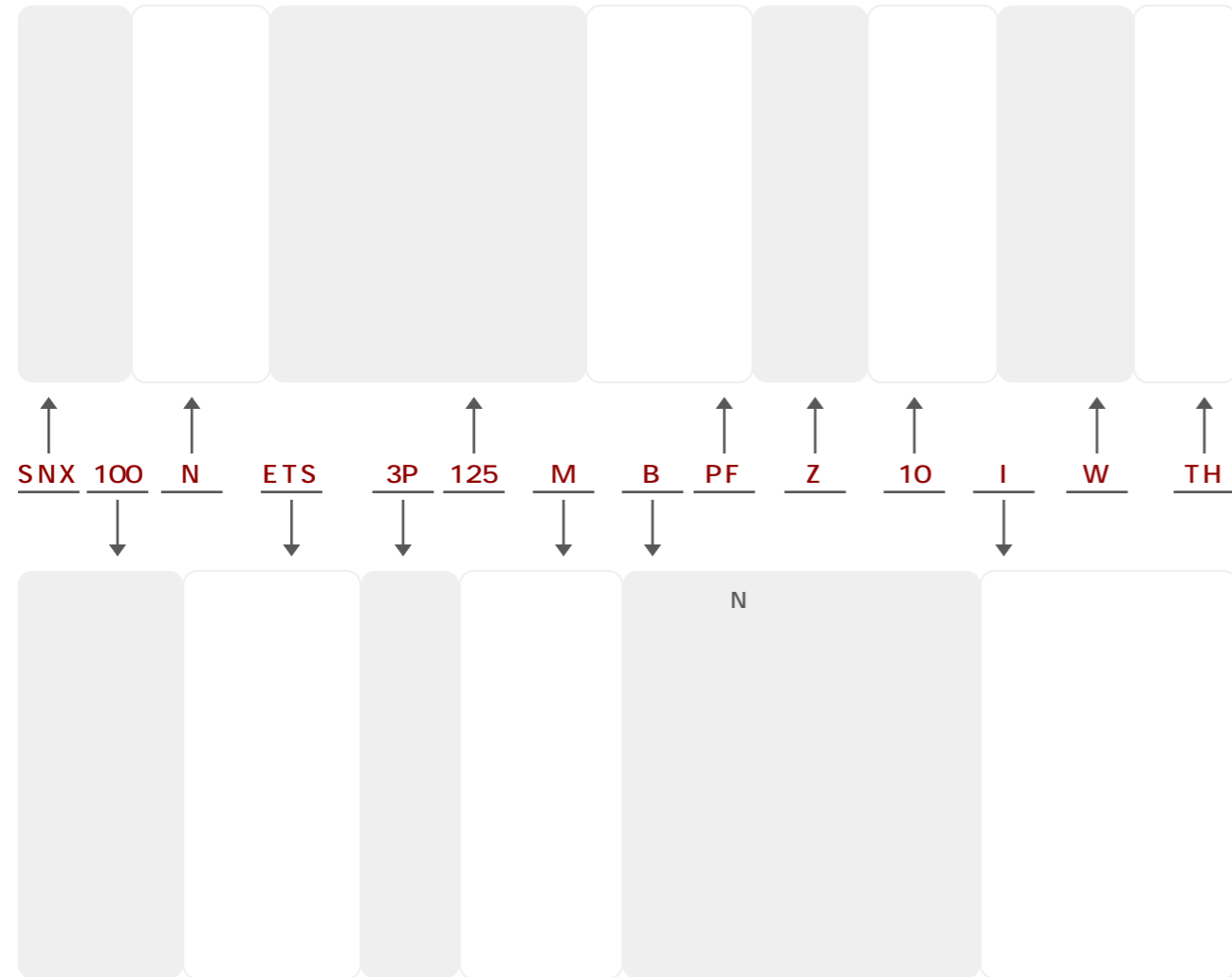




# SNX

## SNX electronic circuit breaker

Quick selection table





**SNX**  
**SNX electronic circuit breaker**

Circuit breaker parameter table

The table structure is as follows:




## case circuit breaker

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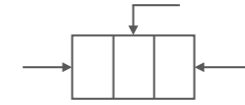


**SNX**  
**SNX series molded case circuit breaker**

**SNS**  
**SNS thermal magnetic circuit breaker**

Code and installation method of electrical accessories

- ○
- ●
- 

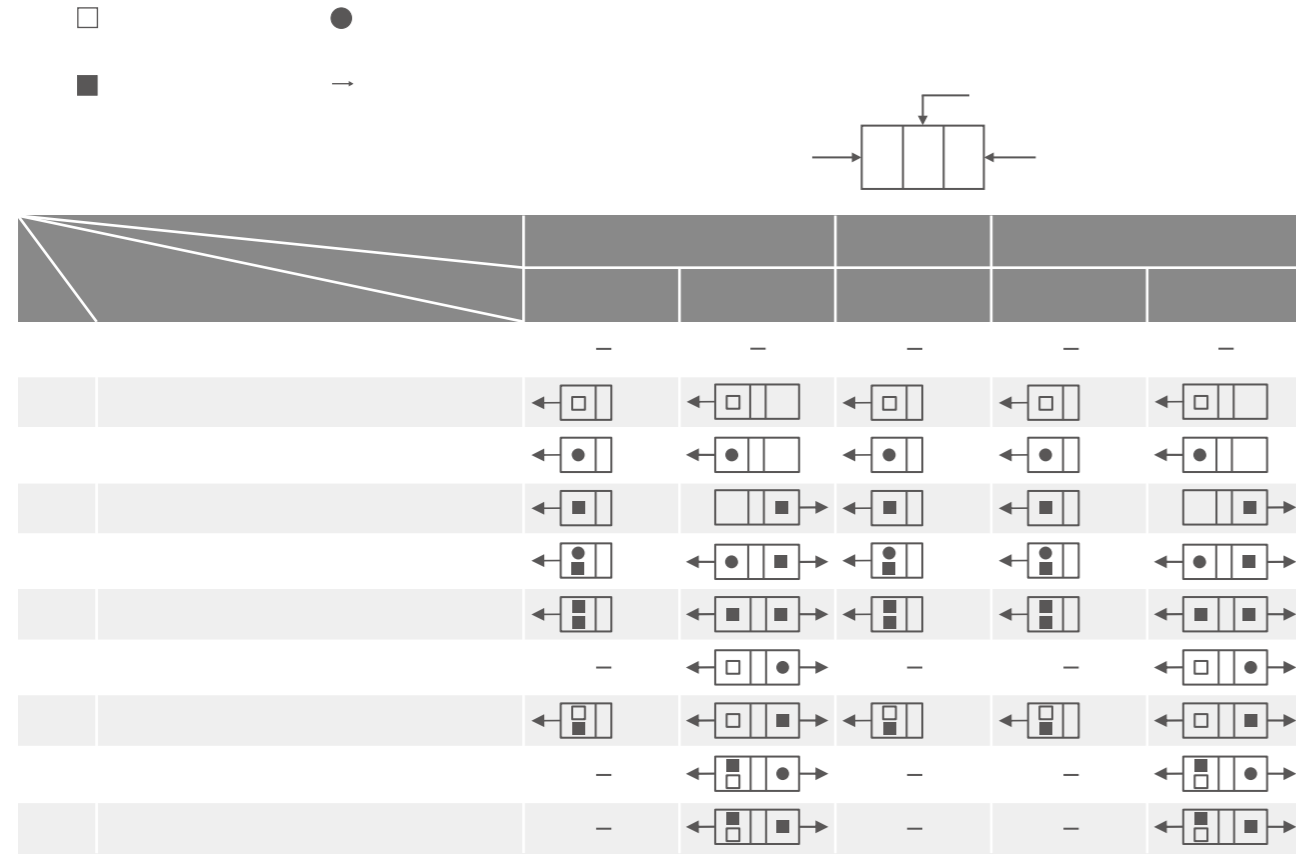


■ |



## SNS DC SNS DC series DC molded case circuit breakers

Code and installation method of electrical accessories



## SNS HU SNS HU series high-voltage AC circuit breakers

Code and installation method of electrical accessories

