

NBSM1-125 INDUSTRIAL MINI CIRCUIT BREAKER

1. APPLICATION

NBSM1-125 series miniature circuit breaker is a current limiting high-breaking miniature circuit breaker with double protection of overload and short circuit. Suitable for AC 50/60 Hz, rated voltage 230/400V, rated current up to 125A and below. It is mainly used for lighting, distribution lines and equipment overload and short circuit protection of residential buildings, office buildings and similar buildings. It can also be used as an infrequent operation conversion of lines under normal conditions.



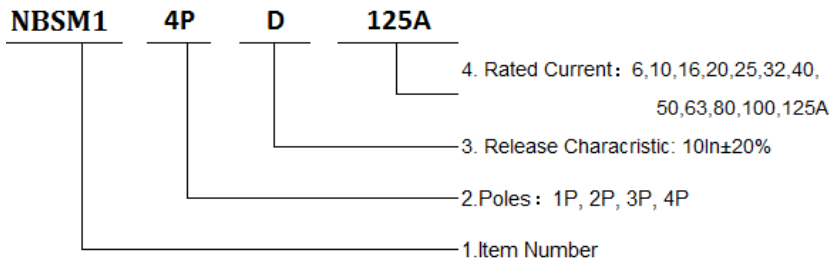
2. TECHNICAL PARAMETER

Technical Parameter	
Spec Parameter	
Rated Voltage (V)	230/400
Rated Current (A)	6,10,16,20,25,32,40,50,63,80,100,125
Poles	1P,1P+N,2P,3P,4P
Current Limiting Level	3
Breaking Capacity	6kA
Rated Impulse withstand voltage	6kV
Release characteristic	10In±20%
Release type	Thermal Magnetic type
Mechanical life(times)	8000
Electrical life(times)	2000
Standard Certificate	
Comply with Standard	IEC 60947-2
	GB 14048.2
Certificate	CCC, CE, CB
Working Environment	
Humidity	40°C humidity not exceed 50% 20°C humidity not exceed 90% (Condensation on the product due to changes in humidity has been considered)
Working Temperature	-5~+55°C (lower than -5°C, or upper than +55°C) are customer made)
Magnetic field	No more than 5 times the geomagnetic field
Pollution level	2
Altitude (m)	2000

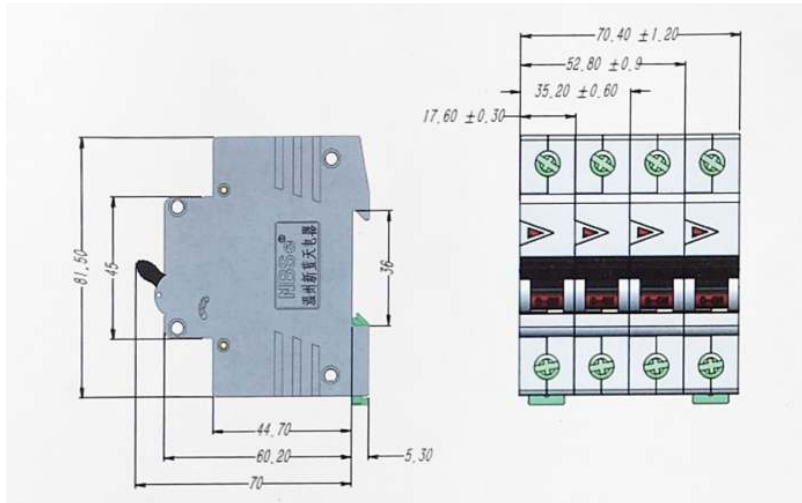
Mounting and Wiring	
Shock and vibration	Should be installed in the case of no obvious impact vibration
Installation category	III
Screw specification	7x14mm
Installation method	TH 35mm Din-rail/U/Pin Busbar
Wiring ability	25mm ²

Note: When the conditions of use of the product are harsher than the above conditions, it should be derated, and the specific matters should be negotiated with the manufacturer.

3. MODEL NUMBER



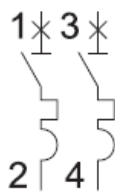
4. Dimension Diagrams



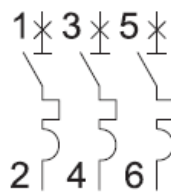
5. Circuit Diagrams



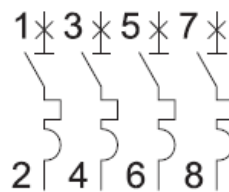
1P



2P

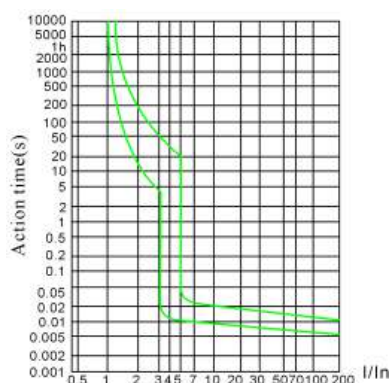


3P

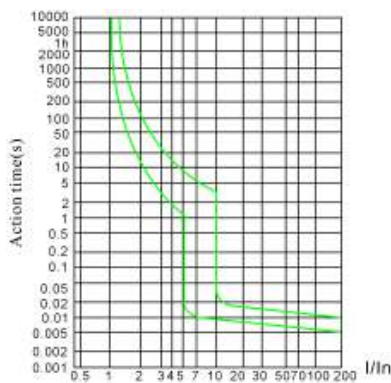


4P

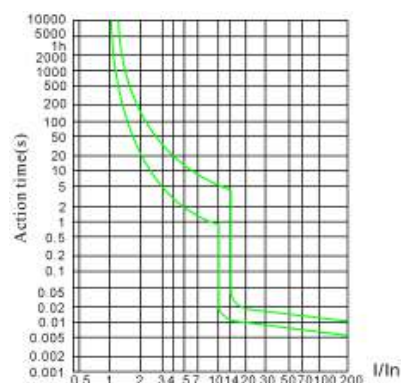
6. Characteristic Curve of Release



Type B



Type C



Type D

7. The Over-Current Protection Property

Item No.	Rated current of release	Initial status	Test current	Expected result	Expected result	Remark
1	1-63	Cold position	1.13In	$t \geq 1h$	Non-release	-
2	1-63	Carried out immediately after previous test	1.45 In	$t < 1h$	Release	Current smoothly rises to specified value within 5s
3	$I_n \leq 32$	Cold position	2.55 In	$1s < t < 60s$	Release	-
	$I_n > 32$	Cold position	2.55 In	$1s < t < 120s$	Release	-
4	1-63	Cold position	3 In	$t \geq 0.1s$	Non-release	Type B
	1-63	Cold position	5 In	$t < 0.1s$	Release	Type B
	1-63	Cold position	5 In	$t \geq 0.1s$	Non-release	Type C
	1-63	Cold position	10 In	$t < 0.1s$	Release	Type C
	1-63	Cold position	10 In	$t \geq 0.1s$	Non-release	Type D
	1-63	Cold position	14 In	$t < 0.1s$	Release	Type D

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