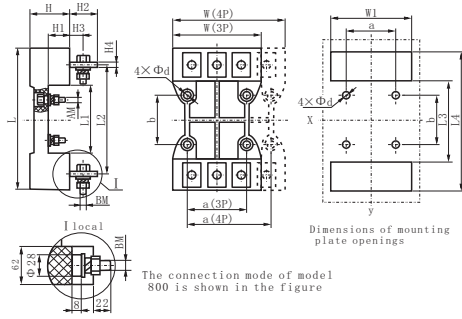


See the table below for the front wiring outline and installation dimensions of the plug-in plate

specification	NLM1-63	NLM1-125	NLM1-250	NLM1-400	NLM1-630	NLM1-800
W	78	96	110	150	179	210
W1	50	60	70	96	116	140
W2	13	19	22	25	35	35
H	43	50	51.5	80	85	87
H1	30	19	49	38	29	24
H2	2	3	3	6	8	8
H3	/	35	35	/	65	61
L	139	172	183	276	297	305
L1	171	217	261	352	397	409
L2	/	38	44	/	64	62
AM	M4	M6	M6	M8	M8	M10
6×Φd1	Φ5.5	M8	M8	Φ11	Φ13	Φ13
a	50	66	70	115	100	90
b	61	60	64	135	123	144
4×Φd	Φ5	Φ7	Φ7	Φ9	Φ9	Φ12

Only the appearance and installation size of the 3-pole product are provided before the plug-in plate. If you need the 4-pole product, please contact the company. It is recommended that the front cable of the plug-in plate of this series be installed by a guide rail

6.3 Insert plate rear wiring shape and installation size



5

The rear wiring outline and installation dimensions of the plug-in plate are shown in the table below

specification	NLM1-63	NLM1-125	NLM1-250	NLM1-400	NLM1-630	NLM1-800
Pole number	3P	4P	3P	4P	3P	4P
W	75	100	91	125	107	145
H	28	50	50	60	60	87
H1	18	33	33	38	40	60
H2	16	32	37	46	50	22
H3	10	17	18	21	28	/
H4	2	4	5.5	8	11	/
L	135	168	186	280	300	305
L1	100	92	94	170	170	178
L2	117	132	145	224	234	242
AM	M5	M6	M6	M8	M8	M10
BM	M5	M8	M8	M12	M12	M14
a	50	75	60	70	105	60
b	60	56	54	129	123	144
4×Φd	Φ6	Φ7	Φ7	Φ9	Φ9	Φ12
W1	85	110	101	135	117	155
L3	90	82	84	160	160	168
L4	145	178	196	290	310	315

7. Usage and considerations

- No load operation can normally open and close.
- The rating of the circuit breaker is in accordance with the working conditions of the installation site.
- Users are not allowed to adjust the protection features of the circuit breaker.
- Only professional personnel can install the internal accessories of the circuit breaker.
- Ensure that the connection of terminals and fixing screws are secured properly.
- If the arc baffle is installed well, turn the operating handle and the operation should be flexible.
- The following table shows the recommended cross-sectional area of the circuit breaker connecting conductor.

In(A)	16	20	25	32	40	50	63	80	100	125	160	180	225	250	315	400
Cross-sectional area of conductor(mm²)	2.5	4	6	10	16	25	35	50	70	95	120	185	240			
In (A)	Copper conductor								Copper bar							
	quantity				Cross-sectional area of conductor (mm²)				quantity				Cross-sectional area of conductor (mm²)			
500	2		150		2		30×5									
600	2		185		2		40×5									
700	2		240		2		50×5									
800	2		240		2		50×5									

6

8. Circuit breaker maintenance

- After normal operation, the maintenance is maintained every year, under abnormal conditions.
- Check the mechanical operation characteristics of the circuit breaker, turn the handle to check whether the operating mechanism is flexible, and press the trip button after closing to check whether the trip mechanism is in good condition.
- Remove dust from the surface and connection of the circuit breaker and check whether the connection of the circuit breaker is loose.
- Insulation test: Use a 500V/DV megohm meter to check the insulation resistance between phases at closing time and between incoming and outgoing lines at opening time is not less than 10MQ.
- When the circuit breaker has a large fault current, professional personnel must check whether the contacts are in good contact, clear the dust and metal particles inside the circuit breaker, and ensure that the operating mechanism is flexible. After the circuit breaker is in good condition, power on again.

9. Order instructions

When placing an order, the user shall specify the circuit breaker model, specification, pole number, operation mode, rated current of the release device and accessory selection Supply voltage and order quantity of accessories.

10. Company commitment

Since the production date of the product 18 months, under the customer's no mal storage, maintenance, use conditions, due to the manufacturing quality of the product Quantity problems and can not be used normally, our company provides "three guarantees" service. Due to the continuous improvement of product technology, all data are subject to the latest data of our technical department: no changes are allowed Further notice.

INSTRUCTION MANUAL

NLM1 SERIES MCCB



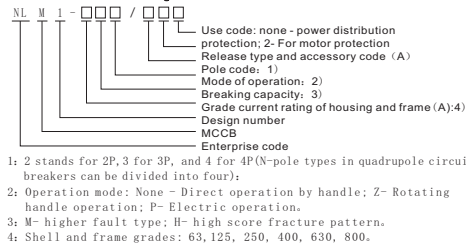
1. Scope of application

NLM1 series plastic case type circuit breaker (hereinafter referred to as circuit breaker), suitable for AC 50Hz, rated current 10AFor infrequent conversion and infrequent starting of motors in circuits with rated operating voltage up to 400V up to 800A. The circuit breaker provides overload, short circuit and undervoltage protection to protect lines and power supplies from damage. The circuit breaker has the characteristics of small volume, breaking high, short arc, vibration resistance, etc. The product has passed the national mandatory product certification, is the user's preferred ideal product. This circuit breaker can be installed vertically (i.e. vertical) or horizontally (i.e. horizontal). This circuit breaker has isolation function: . This series of circuit breakers meet the standard: GB/T14048.2/IEC60947-2

2. Working environment

- The installation site is at or below 2000m above sea level.
- The upper limit of ambient air temperature is +40°C, the lower limit is -5°C, and the average value of 24h does not exceed +35°C; If the upper limit of air temperature in the environment is higher than +40°C or lower than -5°C, please refer to the product sample and instructions. The data given in the book may be used in consultation with the manufacturer.
- In a medium free of explosion hazards and free of gases and conductive dust sufficient to corrode metal and destroy insulation; Place: Where there is no rain or snow.
- Atmospheric relative humidity does not exceed 50% when the ambient air temperature is +40°C; There can be a higher relative humidity at lower temperatures. The monthly average maximum relative humidity in the wettest month is 90%, while the monthly average minimum temperature in that month is +25°C, taking into account the condensation that occurs on the product surface due to temperature changes.
- Pollution level is 3; Circuit breakers can be installed vertically (i.e., firmly) or horizontally (i.e., horizontally).

3. Model and its meaning



1

(A) Release and accessory code

name	Code name	Electromagnetic type	Multiple release
No accessories		200	300
Alarm contact		208	308
Shunt trip device		210	310
Auxiliary contact		220	320
Undervoltage trip device		230	330

4. Main technical performance and parameters

Model number	Shell and frame grade current (A)	In (A)	Pole difference	Icu (kA)	Ics (kA)	Polar number	performance (time)		Arc distance (mm)
							Power of No power	Arc distance (mm)	
NLM1-63	63	(6), 10, 16, 20, 25, 32, 40, 50, 63	L	25	18	3P	2000	8500	≤30
NLM1-125	125	(10), 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	L	35	25	2P	3000	10000	≤50
NLM1-250	250	100, 125, 140, 160, 180, 200, 225, 250	L	35	25	2P	3000	10000	≤50
NLM1-400	400	225, 250, 315, 350, 400	L	50	35	3P/4P	2000	8000	≤50
NLM1-630	630	400, 500, 630	L	50	35	3P/4P	1500	6500	≤50
NLM1-800	800	630, 700, 800	L	65	50	3P/4P	1000	5000	≤100

note: NLM1-125, NLM1-250 Bipolar products are only L-shaped.

5. Protective characteristic

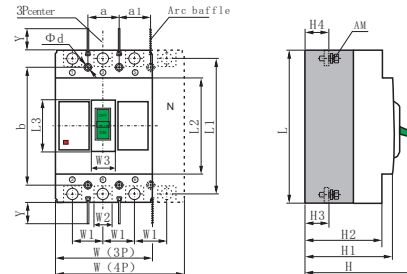
The thermodynamic trip device of the circuit breaker has the reverse time characteristic, and its operating characteristic is shown in the table below. The instantaneous operation characteristic of circuit breaker for distribution is set at 10In±20%. The instantaneous action characteristic of circuit breakers for motor protection is set 12In±20%. (note: 800 No motor protection above type A)

2

use	Test current	I/In	Appointed time	Initial state
Power distribution	No trip current is specified	1.05	≥ 1h (In ≤ 63A) ≥ 2h (In > 63A)	Cold state
	Specify trip current	1.30	< 1h (In ≤ 63A) < 2h (In > 63A)	Hot state
Motor protection	No trip current is specified	1.0	≥ 2h	Cold state
	Specify trip current	1.2	< 2h	Hot state
		1.5	≤ 4min (< 250A) ≤ 8min (> 250A)	Hot state
	7.2	4s ≤ Tp ≤ 10s (< 250A) 6s ≤ Tp ≤ 20s (> 250A)	Cold state	

6. Outline and mounting dimensions of circuit breakers

6.1 Front wiring outline and mounting dimension of fixed plate

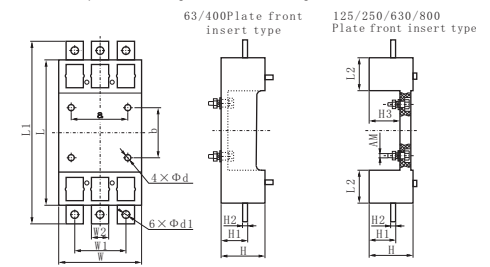


Model and specification	NLM1-63	NLM1-125	NLM1-250	NLM1-400	NLM1-630	NLM1-800
a/a1	25	30	35	44	44/50	58
b	117	129	126	194	200	243
Φd	Φ3.5	Φ4.5	Φ4.5	Φ7	Φ7	Φ7

3

Model and specification	Pole number	Overall dimension (mm)											L (lang)		W (wide)		H (high)	
		W	W1	W2	W3	H	H1	H2	H3/H4	L	L1	L2	L3	AM	Y			
NLM1-63	L 3P	78	25	13.5	27	92	74	66	19	135	116	85	49	M5	40			
	3P 78	25	13.5	27	99	83	75	28										
	H 4P	103	25	13.5	27	99	83	75	28									
NLM1-125	L 2P	65	30	16	27	88	70	62	24	150	144	90	49	M8	50			
	L 3P	92	30	16	27	107	87	79	24									
	M/H 3P	92	30	16	27	107	87	79	24									
NLM1-250	L 4P	122	30	16	27	88	70	62	24	165	144	102	52	M8	70			
	L 3P	107	35	22	27	112	89	82	24									
	M/H 3P	107	35	22	27	112	89	82	24									
NLM1-400	L 3P	150	48	30	66	154	110	98	38/41	257	224	172	78	M10	105			
	H 4P	198	48	30	66	154	110	98	38/41									
NLM1-630	L 3P	182	58	40	66	158	116	105	41/44	270	234	185	82	M12	105			
	H 4P	240	58	40	66	158	116	105	41/44									
NLM1-800	L 3P	210	70	44	66	158	118	103	43/39	280	243	205	75	M12	105			
	H 4P	280	70	44	66	158	118	103	43/39									

6.2 Insert plate front wiring outline and mounting dimensions



4