

NM8N Series MCCB User Instruction

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NM8N Series MCCB

User Instruction

- 1 Only professional technicians are allowed for installation and maintenance.
- 2 It is strictly prohibited to install in the environment containing inflammable, explosive gas and moist condensation.
- 3 Do not touch the conductive part of the product during working.
- 4 Power must be turned off when the product installed and maintained.
- 5 The product should not be installed at places where corrosive gas medium may cause damage to metals and insulations.
- 6 To avoid accidents, the prodcut must be installed strictly according to the instructions.



1 Usage Information

This user instruction specifies the normal working conditions, main specifications, technical parameters.

overall and installation dimensions of the NM8N series moulded case circuit breakers.

It is applicable to NM8N series moulded case circuit breakers (hereinafter referred to as circuit breakers)

It is suitable for AC 50Hz/60Hz, rated voltage AC 690V and below or DC system of rated voltage 1250V and below, rated current up to 1600A and below. It can connect, disconnect and carry the rated working current

and can reliably protect the line and the electrical equipment from the event of overload, short circuit and undervoltage. It can also be used as the protection of infrequent start, short circuit and undervoltag for the motor.

2 Model specifications and definitions



- Company code
- ② N:Design code
- 3 DC MCCB; Switch disconenctor is SD;AC MCCB has no code
- (4) Frame size current

125:125A

250-250A

400:400A

630:630A

800-800A

1600:1600A

(5) Breaking capacity code

B:25kA C:36kA

S:50kA O:70kA

H-100kA R-150kA

® Release type code

M: Magnetic type for motor protection

TM: Thermal-magnetic type

EN: Basic electronic type for power distribution

EM: Standard electronic type for power distribution

ENM: Basic electronic type for motor protection

EMM: Standard electronic type for motor protection

⑦ Rated current code

125:16-20-25-32-40-50-63-80-100-125

250:125-160-180-200-225-250

400:250-315-350-400



630:250-315-350-400-500

800:500-630-700-800

1600:800-1000-1250-1600

Note: The above is the thermal magnetic rated current, the electronic rated current is shown in Table 2. (8) Poles:

Poles: 1P: 1-pole

2P: 2-pole

3P: 3-pole

4A: 4-pole, there is no over-current protection at pole N and N-pole does

not operate with other three poles

4B: 4-pole, there is no over-current protection at pole N and N-pole operates with other three poles

4C: 4-pole, there is over-current protection at pole N and N-pole operates

with other three poles
4D: 4-pole, there is over-current protection at pole N and N-pole does not

operate with other three poles

Special requirement

According to the corresponding special requirements

1600A motor type: MD AC230

MD AC400 MD DC110

MD DC220

3 Conditions for Normal operation, Installation, Transportation and Storage

3.1 Conditions for normal operation

- Operating and storage temperature is -40° C \sim +70° C; the average valuewithin 24 hours does not exceed +35° C, when the ambient temperature is-40° C \sim +70° C, users need to consider derating or temperature compensate.
- When the maximum temperature is +40°C, the relative humidity of the air does not exceed 50%, and at a lower temperature, higher relative humidity (for example, 90% at +20°C) is allowed. Special measures should be taken for condensation that occasionally occurs due to temperature changes.
- The altitude of the installation site should not exceed 2000m; Note: When the altitude exceeds 2000m, please use according to the altitude derating correction factor.
- Product inverse time characteristics and temperature compensation curve and altitude derating correction factor table are detailed in the product catalog.
- Pollution level 3:
- Installation category III.

3.2 Installation conditions

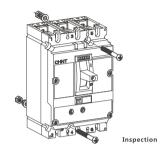
The circuit breaker should be installed according to this instruction, with vertical inclination no higher than 5°

3.3 Conditions for transportation and storage

Applicable temperature range is -25° C to $+55^{\circ}$ C, in a short time, (within 24h) up to $+70^{\circ}$ C. The storage area should be ventilated, dry, and free from rain and snow and direct sunlight.



4 Inspection, testing



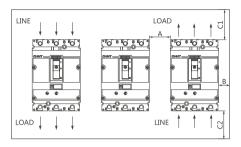


Model		*	% 6 0000
	1P	2(M3x70)	2(M6x16)
NM8N(DC)-125	2P	2(M5x65)	4(M6x16)
INIVION(DC)-123	3P	2(M5x65)	6(M6x16)
	4P	4(M5x65)	8(M6x16)
	1P	2(M3x85)	2(M8x20)
NM8N(DC)-250	2P	2(M5x75)	4(M8x20)
INIVION(DC)-230	3P	2(M5x75)	6(M8x20)
	4P	4(M5x75)	8(M8x20)
NM8N(DC)-400	3P	4(M5x85)	6(M10x30)
NM8N(DC)-630	4P	6(M5x85)	8(M10x30)
NIMONI(DG) 000	3P	4(M5x95)	6(M12x30)
NM8N(DC)-800	4P	6(M5x95)	8(M12x30)
NIMONICOC) 1600	3P	4(M5x110)	12(M10x40)
NM8N(DC)-1600	4P	6(M5x110)	16(M10x40)



- 1. Determine product technical parameters;
- 2. Only professional electricians are allowed for installation, operation and maintenance of the product.





	Ue(V)			Insulation	oanel(mm)	Metal panel(mm)		
Model	Ue(V)	Α	В	C1	C2	C1	C2	
NM8N-125	<660		10	30	30	35	35	
NM8N-125	≥660		20	30	30	35	35	
	<660	10	10	30	30	35	35	
NM8N-250	≥660		20	30	30	35	35	
NM8N-400	<660		10	30	30	35	35	
NM8N-630	≥660		20	30	30	35	35	
NM8N-800			20	130	130	170	170	
NM8N-1600			20	130	130	170	170	











Re-trip

Closing

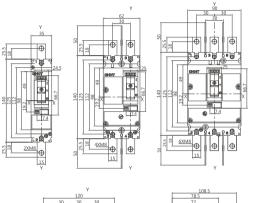
Opening Closing Tripping

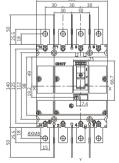
Test





5 Overall and installation dimention





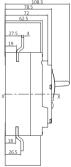


Diagram 1. NM8N(DC)-125

05



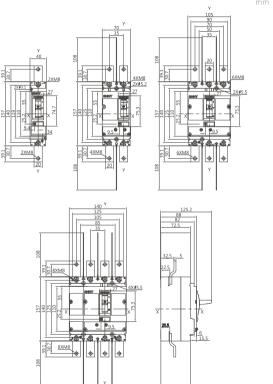


Diagram 2. NM8N(DC)-250



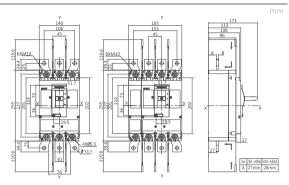


Diagram 3. NM8N(DC)-400, 630

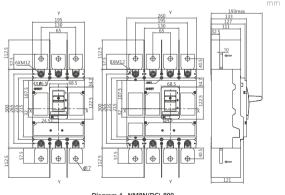
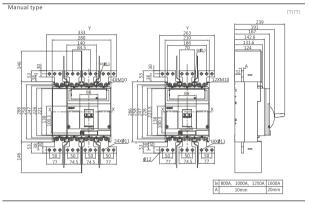


Diagram 4. NM8N(DC)-800





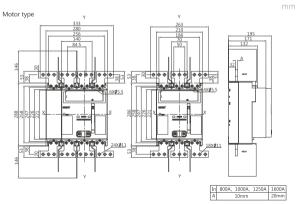


Diagram 5. NM8N(DC)-1600



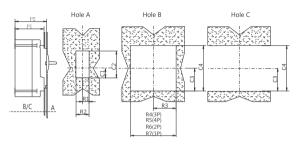


Diagram 6. NM8N(DC)-125 ~ 1600 front opening hole size

Table 1. NM8N(DC)-125 ~ 1600 front opening hole size

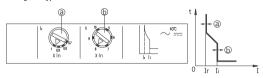
mm

Size	Size	Model								
category	code	NM8N-125	NM8N-250	NM8N-400,630	NM8N-800	NM8N-1600				
	P1	73	83	109	128	168				
	P2	80	89	114	134	168				
	R1	13	14	26.5	35	43.5				
	R2	26	28	53	70	87				
	R3	46.5	54	71.5	97.5	105				
front	R4	93	108	143	198	213				
opening hole size	R5	123	143	188	263	283				
	R6	65	73	_	_	-				
	R7	38	43	-	-	-				
	C1	26	33	41.5	40	112				
	C2	70	78	116	125	140				
	C3	50.5	56.5	103	108.5	112				
	C4	101	113	195	218	224				



6 Release

6.1 Thermo-magnetic type release



- (a) Overload protection setting adjustable
- (b) Short circuit protection setting adjustable
- Example: Taking NM8N-250S TM 250A 3P as an example
- a:Long-time delay current setting knob
- In 250A
- Ir 0.7 0.8 0.9 1.0

Ir=1.0X250A(In)=250A

(b):Instantaneous current setting knob

li 5 6 7 8 9 10

Ii=8X250A(In)=2000A

Table 2. Thermal magnetic trip setting

		Thermal magn	N-pole protection		
Size category	Size code	Overload protection (thermal)	Short circuit protection (magnetic)	4A、4B	4C、4D
NM8N-125	1P	1.0In	10In(Power distribution)		
ININIOIA-152	2P、3P、4P	0.7~1.0In	12In(Motor protection)	protecti on	Same as other three poles
	1P	1.0In	10In		
NM8N-250	2P、3P、4P	0.7~1.0In	7~12In(Power distribution 125~160A) 5~10In(Power distribution 180~250 A) 9~14In(Motor protection)		
NM8N-400/ 630/800	3P、4P	0.7~1.0In	5 ~ 10In(Power distribution) 9 ~ 14In(Motor protection)		
NM8N-1600		0.7~1.0In	5 ~ 10In(Power distribution) 9 ~ 14In(Motor protection)		



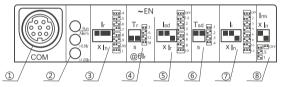
6.2 Electronic type release

Table 3. Electronic type rated current

Frame size rated current Inm A	Rated current In A
250	32、63、100、160、250
400	250, 400
630	250、400、630
800	630、800
1600	800、1000、1250、1600

6.2.1 Basic electronic type release

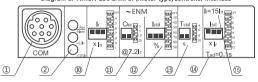
Diagram 7. NM8N-250 EN 4C (Power distribution)Controller interface



- ① Communication test interface: external communication module or dedicated handheld test equipment
- ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off. When the actual current I≥105%Ir, the red overload warning light is on, when I <105%Ir, the overload warning light is off.
- 3 Long-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In, with a total 8 gears
- (4) Long-time delay time setting dial switch: long-time delay time setting, including (3-18)s in total of 4 gears
- (5) Short-time delay current setting dial switch: short-time delay multiple setting, including (1.5-10) Ir+OFF in total
- ⑤ Short-time delay time setting dial switch; short delay time setting, including (100-400) ms in total of 4 gears
- ⑦ Instantaneous current setting dial switch: instantaneous multiple setting, including (2-12) In+OFF in total of 8 gears
- ® N-pole setting dial switch: Neutral line multiple setting, including OFF+(0.5, 1)In+OFF a total of 4 gears. 3P products have no neutral line protection function and corresponding dial switch;

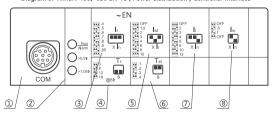


Diagram 8. NM8N-250 ENM 3P(Motor type)Controller interface



- $\textcircled{$\mathbb{Q}$ Communication test interface: external communication module or dedicated handheld test equipment}$
- ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current ≥90%ir, the yellow warning light is on, and when I<90%ir, the yellow warning light is off. When the actual current I≥105%ir, the red overload warning light is on, when I<105%ir, the overload warning light is off.</p>
- Long-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In+OFF, with a total 8 gears
- ① Long-time delay protection tripping level dial switch: long-time delay protection trip level setting, including Class (5-10-20) with a total 3 gears
- © Current phase unbalance rate setting dial switch: phase unbalance rate setting, including (30%-90%) + OFF with a total 8 gars. If the overload long-time delay Ir is turned off, the phase unbalance / phase loss protection function automatically turns OFF.
- [®] Phase unbalance rate delay time setting dial switch: phase unbalance rate delay time setting, including (4-10) s a total of 4 gears
- Short circuit short-time delay current setting dial switch, the customer can use the tool to dial according to actual needs, including OFF + (5-12)In with a total of 8 gears. The tripping time is set 0.1s as default, and is not adjustable. If the overload long-time delay Ir is turned off, the short circuit short-time delay protection setting protects according to the multiple of x In.
- Short circuit instantaneous protection default setting Ii=15In, not adjustable

Diagram 9. NM8N-400, 630 EN 4C (Power distribution) Controller interface



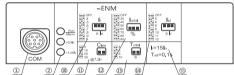


- ① Communication test interface: external communication module or dedicated handheld test equipment
 ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off.</p>
- actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off.

 When the actual current I≥105%Ir, the red overload warning light is on, when I<105%Ir, the overload warning light is off.

- Short-time delay current setting dial switch: short-time delay multiple setting, including (1.5-10) Ir+OFF
 in total of 8 gears
- © Short-time delay time setting dial switch: short-time delay time setting, including (100-400) ms in total of 4 gears
- \odot Instantaneous current setting dial switch: instantaneous multiple setting, including (2-12) In+OFF in total of 8 gears
- ® N-pole setting dial switch: Neutral line multiple setting, including OFF+(0.5, 1)In+OFF a total of 4 gears.
 3P products have no neutral line protection function and corresponding dial switch;

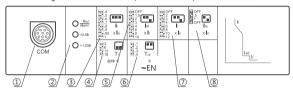
Diagram 10. NM8N-400、630 ENM 3P (Motor protection) Controller interface



- ① Communication test interface: external communication module or dedicated handheld test equipment
- ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off. When the actual current I≥105%Ir, the red overload warning light is on, when I<105%Ir, the overload warning light is off.</p>
- Long-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In+OFF, with a total 8 gears
- Long-time delay protection tripping level dial switch: long-time delay protection trip level setting, including Class (5-10-20-30) with a total 4 gears
- © Current phase unbalance rate setting dial switch: phase unbalance rate setting, including (30%-90%) + OFF with a total 8gears. If the overload long-time delay Ir is turned off, the phase unbalance / phase loss protection function automatically turns OFF.
- 9 Phase unbalance rate delay time setting dial switch: phase unbalance rate delay time setting, including (4-10)s a total of 4 gears
- (5) Short circuit instantaneous protection default setting Ii=15In, not adjustable

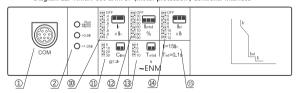


Diagram 11, NM8N-800 EN 4C (Power distribution) Controller interface



- ② Communication test interface: external communication module or dedicated handheld test equipment ③ Status indicator: Under normal working status, the green working status indicator flashes. When the actual current 1≥90%ir, the yellow warning light is on, and when 1<90%ir, the yellow warning light is off. When the actual current 1≥105%ir, the red overload warning light is on, when 1<105%ir, the overload warning light is off.
- ③ Long-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In, with a total 8 gears
- Long-time delay time setting dial switch: long-time delay time setting, including (3-18)s in total of 4 gears
- (§) Short-time delay current setting dial switch: short-time delay multiple setting, including (1.5-10) Ir+OFF in total of 8 gears
- Short-time delay time setting dial switch: short-time delay time setting, including (100-400) ms in total
 of 4 gears
- ① Instantaneous current setting dial switch: instantaneous multiple setting, including (2-12) In+OFF in total of 8 gears
- ® N-pole setting dial switch: Neutral line multiple setting, including OFF+(0.5, 1)In+OFF a total of 4 gears. 3P products have no neutral line protection function and corresponding dial switch;

Diagram 12. NM8N-800 ENM 3P (Motor protection) Controller interface



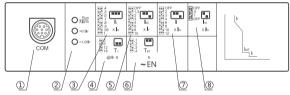
- ① Communication test interface: external communication module or dedicated handheld test equipment
- ② Status indicator. Under normal working status, the green working status indicator flashes. When the actual current 1≥90%ir, the yellow warning light is on, and when 1<90%ir, the yellow warning light is off. When the actual current 1≥105%ir, the red overload warning light is on, when 1<105%ir, the overload to the properties of the



warning light is off.

- Dong-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In +OFF, with a total 8 gears
- ① Long-time delay protection tripping level dial switch: long-time delay protection trip level setting. including Class (5-10-20) with a total 3 gears.
- @ Current phase unbalance rate setting dial switch; phase unbalance rate setting, including (30%-90%) + OFF with a total 8 gears. If the overload long-time delay Ir is turned off, the phase unbalance / phase loss protection function automatically turns OFF.
- B Phase unbalance rate delay time setting dial switch; phase unbalance rate delay time setting. including (4-10) s a total of 4 gears
- Short circuit short-time delay current setting dial switch, the customer can use the tool to dial according to actual needs, including OFF + (5-12)Ir with a total of 8 gears. The tripping time is set 0.1s as default, and is not adjustable. If the overload long-time delay Ir is turned off, the short circuit shorttime delay protection setting protects according to the multiple of x In.
- Short circuit instantaneous protection default setting Ii=15In, not adjustable

Diagram 13. NM8N-1600 EN 4P (Power distribution) Controller interface



- ① Communication test interface: externally connect the battery box to supply power to adjust the controller parameters; external communication module or dedicated handheld test equipment
- ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off. When the actual current I≥105%Ir, the red overload warning light is on, when I<105%Ir, the overload warning light is off.
- ③ Long-time delay current setting dial switch: long-time delay multiple setting, including (0.4-1)In, with a total 8 gears
- (4) Long-time delay time setting dial switch: long-time delay time setting, including (3-18)s in total of 4
- Short-time delay current setting dial switch: short-time delay multiple setting, including (1.5-10) Ir+OFF in total of 8 gears
- (6) Short-time delay time setting dial switch: short-time delay time setting, including (100-400) ms in total of 4 gears
- ② Instantaneous current setting dial switch: instantaneous multiple setting, including (2-12) In+OFF in total of 8 gears
- ® N-pole setting dial switch: Neutral line multiple setting, including OFF+(0.5, 1)In+OFF a total of 4 gears. 3P products have no neutral line protection function and corresponding dial switch:



6.2.2 Dialing function adjustment example

Example 1: Power-distribution type electronic molded case circuit breaker NM8N-250S EN 250A 4C ③: Long-time delay current setting code switch

Neutral short circuit instantaneous protection Ii (N)=15XInN=3750A



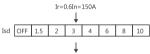
Ir=0.6X250A(In)=150A

4 Long-time delay time setting code switch: long delay time setting,

including (3-6-12-18) s a total of 4 gears.

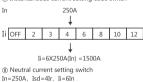
I	≤1.05Ir	1.3Ir	1.5Ir (s)				2Ir(s)				6Ir(s)			
Tr	> 2h non- tripping	< 1h tripping	3X16	6X16	12X16	18X16	3X9	6X9	12X9	18X9	3X1	6X1	12X1	18X1

(5) Short-time delay current setting code switch



Isd=4X150A(In) =600A

- (§) Short-time delay time setting code switch: short-time delay time setting, including (100-400) ms a total of 4 gears
- ① Instantaneous current setting code switch





InN=1.0X250A(In)=250A

Neutral line overload long delay protection Ir(N)=InN=250A



Neutral short circuit short delay protection Isd(N)=4XInN=1000A

Neutral short circuit transient protection Ii(N)=6XInN=1500A

Example 2: Motor type electronic molded case circuit breaker NM8N-250S ENM 250A 3P

B Long time delay current setting switch



Ir=0.6X250A(In)=150A

 \oplus Long time delay protection trip level dial switch: long time delay protection trip level setting, including Class (5-10-20) a total of 3 gears

Overload long time delay inverse time action characteristic table

I	≤1.05Ir	1.2Ir	2Ir(s)				7.2 Ir(s)			
Tr	> 2h non- tripping	< 2h tripping	Class5	Class10	Class20	Class30	Class5	Class10	Class20	Class30
T(S)			52	104	208	311	4	8	16	24

- @ Current phase imbalance setting switch: phase imbalance rate setting, including (30%-90%) + OFF total 8 gears
- Short time delay current setting dial switch (short delay time Tsd=0.1s, not adjustable) In=250A, Ir=0.6In=150A



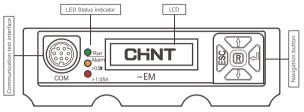
Isd=5X150A (Ir)=750A

(9) Instantaneous protection default setting Ii=15In, not adjustable



6.2.3 Standard electronic type release

Diagram 14. NM8N Series Power Distribution Protection EM and Motor Protection EMM Controller Interface and Operation Guide

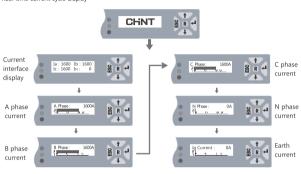


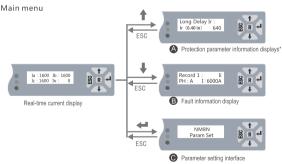
Not e: EM is unit for power distribution; EMM is unit for mo tor protection

- ① Communication test interface: externally connect the battery box to supply power to adjust the controller parameters; external communication module or dedicated handheld test equipment
- ② Status indicator: Under normal working status, the green working status indicator flashes. When the actual current I≥90%Ir, the yellow warning light is on, and when I<90%Ir, the yellow warning light is off. When the actual current I≥105%Ir, the red overload warning light is on, when I<105%Ir, the overload warning light is off.</p>
- Liquid crystal display interface
- Navigation keys: Up and down keys: page turning, changing status and values
 Left button (ESC): return to the previous interface, shift to the left
 Right button (confirm button): enter the next layer interface, confirm
 Middle button (R): return to the real-time current display interface



Real-time current cycle display





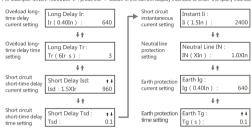
Note:

A1.1 is the protection parameter information of the EM power distribution type unit; A1.2 is the protection parameter information of the EMM motor protection type unit;



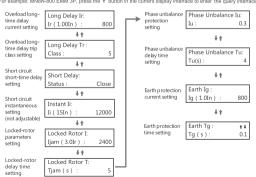
A1.1 EM Power distribution protection parameter inquiry

For example: MN8N-1600SEM 4P, press the "#" button in the current display interface to enter the guery interface



A1.2 EMM Motor protection parameter inquiry

For example: MN8N-800 EMM 3P, press the "1" button in the current display interface to enter the query interface

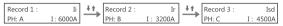




B Fault information query

Press the

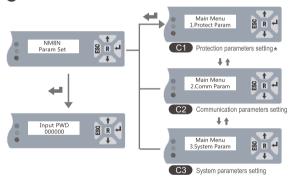
key in the current display interface to enter the fault information query interface, and the fault information can be recorded 3 times



EM power distribution type smart unit fault type: long-time delay fault, short-time delay fault, instantaneous fault, ground fault:

EMM motor protection type smart unit fault type: long-time delay fault, short-time delay fault, instantaneous fault, ground fault, locked-rotor fault, phase unbalance fault.

Parameter setting



Note:

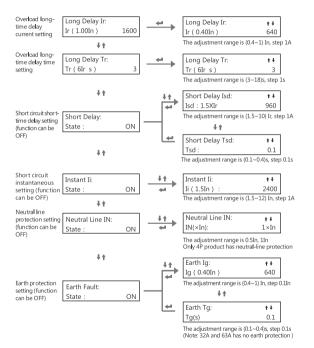
C1.1 is the protection parameter information of the EM power distribution type unit;

C1.2 is the protection parameter information of the EMM motor protection type unit:



C1.1 EM power distribution protection parameter setting

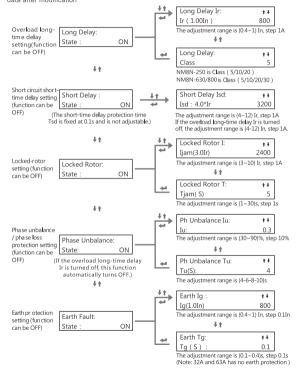
Eg: NM8N-1600 EM 1600 4P , Enter the adjustment page by "← ", "↑ ↓" means it can be modified, "↓" and ↓" to adjust the value, ESC key cancels the change, "↓ " to save the data after modification





C1 2 EMM motor protection parameter setting

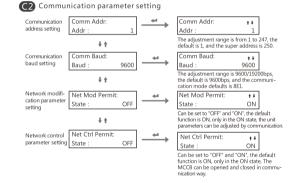
Eq : NM8N-800H EMM 800 3P . Enter the adjustment page by " ← ", "↑ ↑ " means it can be modified, "↑" and "↓" to adjust the value, "ESC" key cancels the change, "→" to save the data after modification

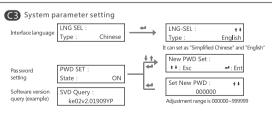




Note:

- 1. EMM motor type instantaneous protection is fixed to 15In and is not adjustable.
- The EMM motor-type circuit breaker needs to be equipped with a contactor control module in order to be used as a two-device protection solution.
- 3. When the two-device protection solution is applied, in the case of overload long-time delay protection, phase unbalance / phase loss protection, and locked-rotor protection, the pre-alarm function of the contactor control module can control the contactor to open 500ms before the circuit breaker opens. Short-time delay protection, instantaneous protection and ground fault protection is directly protected by the circuit breaker.
- 4. During motor starting, the locked-rotor protection function is automatically turned off.
- During motor starting, the phase loss protection function automatically turns on. The contactor action delay time is 700ms. If the contactor fails, the circuit breaker will delay for another 500ms to open.





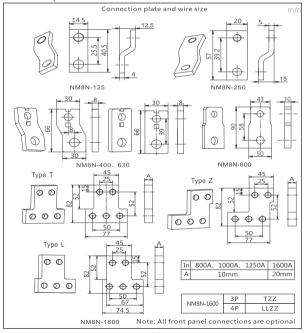


Notes:

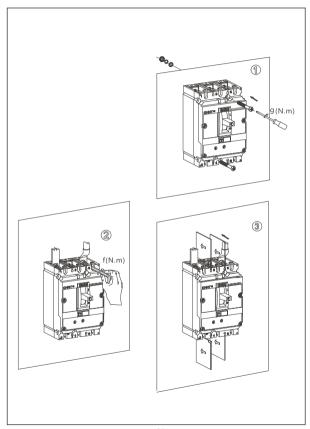
- NM8N electronic trip unit is suitable for 50Hz/60Hz, rated voltage below 690V.
- 2. The power supply of the electronic trip unit is powered by the built-in current transformer. When the main circuit current is ≥0.4In, the electronic trip unit can work normally.
- 3. The electronic trip system can view and modify the parameter settings by supplying power to the controller through an external dedicated battery box or hand-hold test equipment.
- 4. Operating temperature -25 ° C ~ +70 ° C, storage temperature is -35 ° C ~ +85 ° C

▼ Installation, wiring

Connection plate and wire size



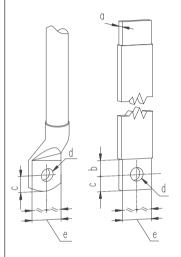


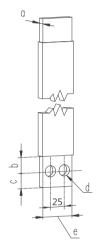




NM8N-125, 250, 400, 630, 800

NM8N-1600





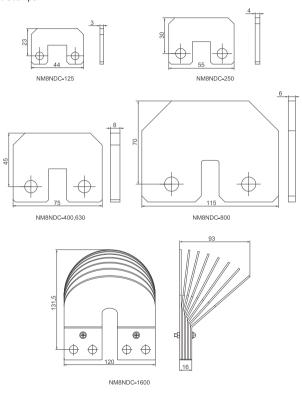
Model	a(mm)	b(mm)	c(mm)	d(mm)	e(mm)	f(N.m)	9(N.m)
NM8N-125	4	≥7.5	≤7.5	Ø 6.5	≤14.2	6	2
NM8N-250	6	≥9.5	≤8.5	Ø 8.5	≤25	11	2
NM8N-400 NM8N-630	8	≥15	≤12.5	Ø 10.5	≤30	25	3
NM8N-800	10	≥20	≤16	Ø 12.5	≤50	35	3
NM8N-1600	10(≤1250A) 20(1600A)	≥15	≤16	Ø 10.5	≤55	25	3



Solutions	Unipolar grounding system	Ungrounded system
≤DC500V	Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.	Note: 1. Both the upper and lower lines can be used, here the following lines are taken as an example; 2. Make sure that the installation method does not cause a secondary ground fault.
DC500~750V	Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.	Note: 1. Both the upper and lower lines can be used, here the following lines are taken as an example; 2. Make sure that the installation method does not cause a secondary ground fault.
DC750~1000V	Note: 1. The upper and lower lines can be used, here the following lines are taken as an example.	

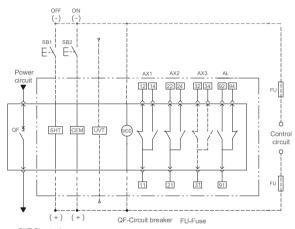


DC Jumper





NM8N-1600 MOD Wiring diagram of the control circuit



- SHT-Shunt release
- Working voltage input of SHT
- CEM-Closing coil
- Working power supply input of the closing coil
- UVT-Under voltage release (Optional)
 Working power supply input of UVT
- Working power supply of MOD energy storage motor

Working power supply input of MOD energy storage motor

■ AX1~AX3 Auxiliary contact

11#, 12#, 14# (AX1) ; 21#, 22#, 24# (AX2) : Two sets of auxiliary contacts are provided for a standard product

31#, 32#, 34# (AX3) : (AX3 is optional)

■ Alarm contact

91#、92#、94#: One set of alarm contact is provided for a standard product



8 Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process, or be sent to the recycling station for assortment, dismantling and recycling according to local regulations.



CHNT

QC PASS

NM8N Series MCCB IEC/EN 60947-2

JZQ-08

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.