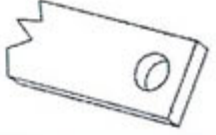
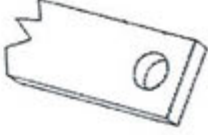
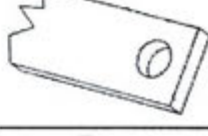


BREAKER TYPE	DESCRIPTION	CABLE SIZE	TIGHTENING	BUS BAR WIDTH	ORDER CODE
NM8-125 NH18-125	Built in single hole	4-95 mm ²	8 N.M		150810 
	Bus Bar/ front connection plate		10 N.M	15 mm	
NM8-250 NM8S-250 NM8S-125 NH18-250	Built in single hole	10-120 mm ²	12 N.M		150810 
	Bus Bar/ front connection plate		15 N.M	25 mm	
	Built out double hole	2x(35-120) mm ²	A 30 N.M B 15 N.M		150818 
NM8-630 NM8S-630 NH18-630	Built in single hole	120-240mm ²	A 35 N.M B 30 N.M		150821 
	Bus Bar/ front connection plate		40 N.M	32 mm	
	Built out double hole	2X(120-240)mm ²	A 35 N.M B 35 N.M		150820 
NM8S-1250	Bus Bar/ front connection plate		50 N.M	50 mm	
	Built out 4 holes	4X(185-240)mm ²	A 50 N.M B 50 N.M		150823 

All connections fits copper & aluminum bus bar refers to lock cable adapter as well details fit to the attached breaker appendix.

Manufacturing Department

Technical Director & Quality Management Director

Name: Ji Delong Huang He

Signature:  浙江正泰电器股份有限公司
ZHEJIANG CHINT ELECTRICS CO., LTD

Date: 18th, Jan 2017

Add: No.1 CHINT Road, CHINT Industrial Zone, North Baixiang.

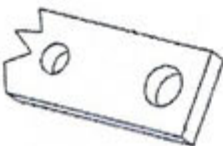
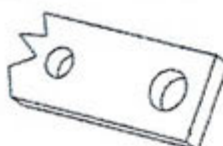
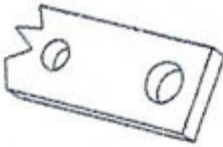
Tel: +86-577-61986198

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Email: global-sales@chint.com

Website: www.chint.net

אביזרים לחיבור ל NM-8/NH-18

סוג המפסק	תיאור	גודל הכבל	הידוק	רוחב פס צבירה	
NM8-125 NH18-125	חיבור מהיר	4-95 mm ²	8 N.M		
	חיבור ישיר ופס צבירה		10 N.M	15 mm	
NM8-250 NM8S-250 NM8S-125 NH18-250	חיבור מהיר	10-120 mm ²	12 N.M		
	חיבור ישיר ופס צבירה		15 N.M	25 mm	
	כניסה ל-2 כבלים	2x(35-120) mm ²	30 N.M		
NM8-630 NM8S-630 NH18-630	חיבור מהיר	120-240mm ²	35 N.M		
	חיבור ישיר ופס צבירה		40 N.M	32 mm	
	כניסה ל-2 כבלים	2X(120-240)mm ²	35 N.M		
NM8S-1250	חיבור ישיר ופס צבירה		50 N.M	50 mm	
	כניסה ל-4 כבלים	4X(185X240)mm ²	50 N.M		

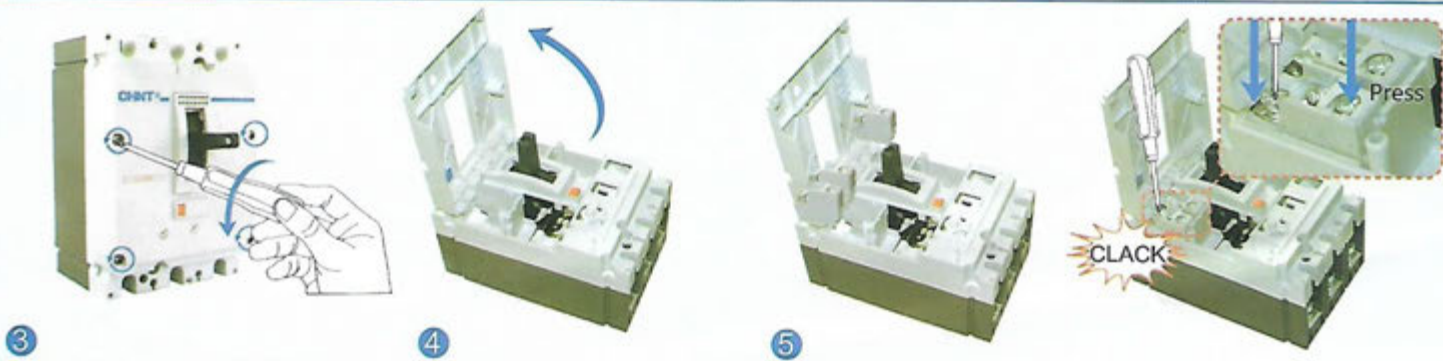
* כל הכניסות מתאימות לנחשת ואלומיניום.

* חיבור ישיר מתייחס גם למתאם נעל כבל המצורף למפסק.

* הנתונים תואמים לנספח המצורף למפסק.

NM8(S)-125,250,400,630 Manual of Inner Accessories

CHINT



Auxiliary contact

Circuit breaker is at "breaking" status
Circuit breaker is at "making" status



Alarm contact

Circuit breaker is at "breaking" or "making" status
Circuit breaker is at "free release (or alarming)" status



Shunt release

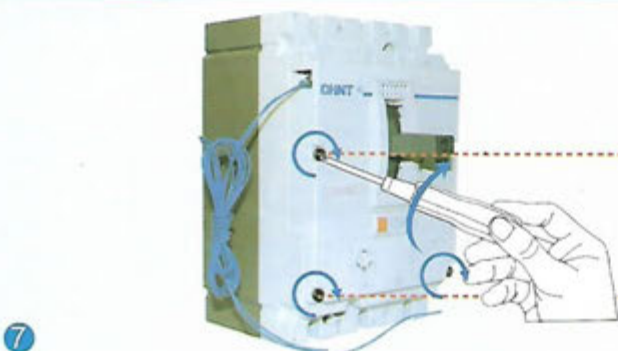
a. $U_s = 70\% \sim 110\% U_n$, reliable operation
b. continuous powering ($\leq 5s$) is forbidden,
reaction time: impulse type $\geq 20ms$, $\leq 60ms$.



Under-voltage release

a. $U_s = 70\% \sim 35\% U_n$, reliable operation
b. $U_s \leq 35\% U_n$, prevent breaker from making
c. $U_s \geq 85\% U_n$, reliable operation

Warning: MCCB can be on an off when the voltage $\geq 85\% U_n$,
when the under-voltage is in the breaker.



Type	NM8(S)-125 NM8(S)-250	NM8(S)-400 NM8(S)-630
Torque (N·m)	0.8	1.2

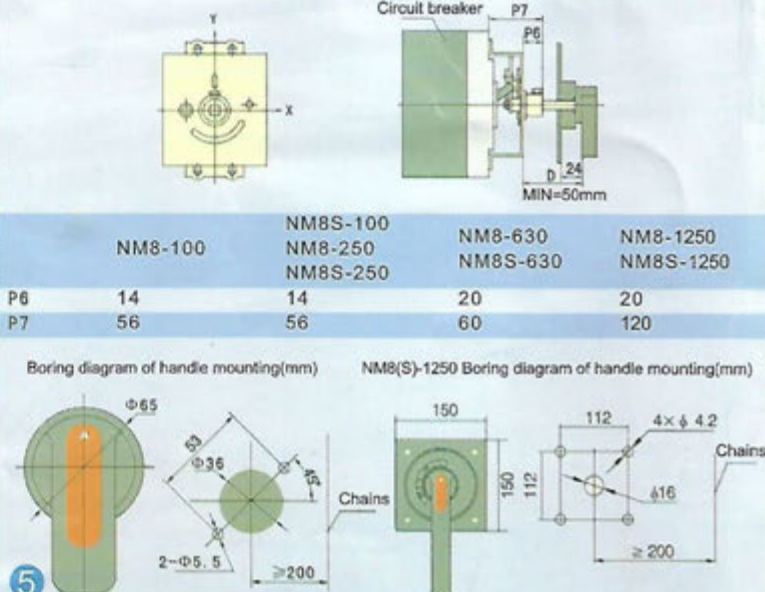
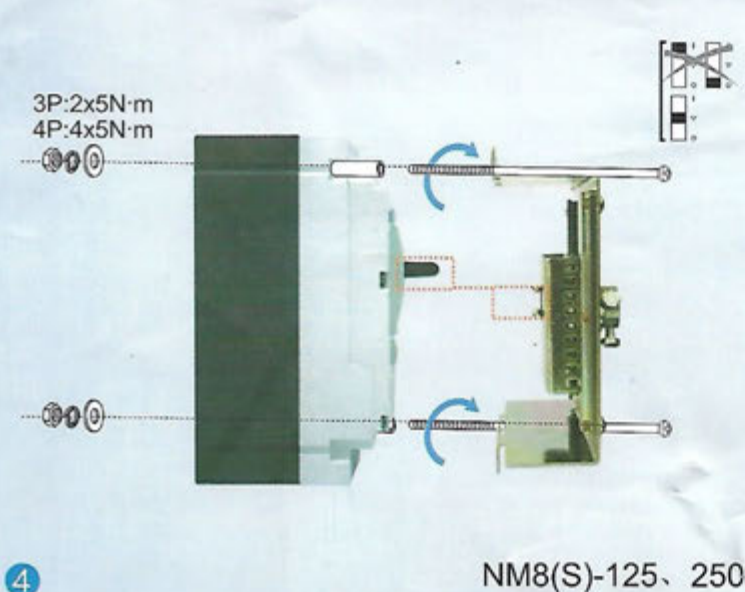
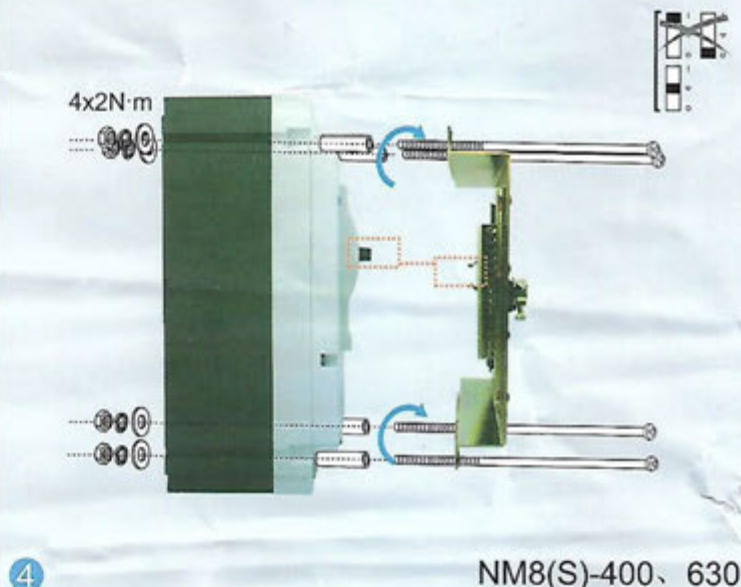
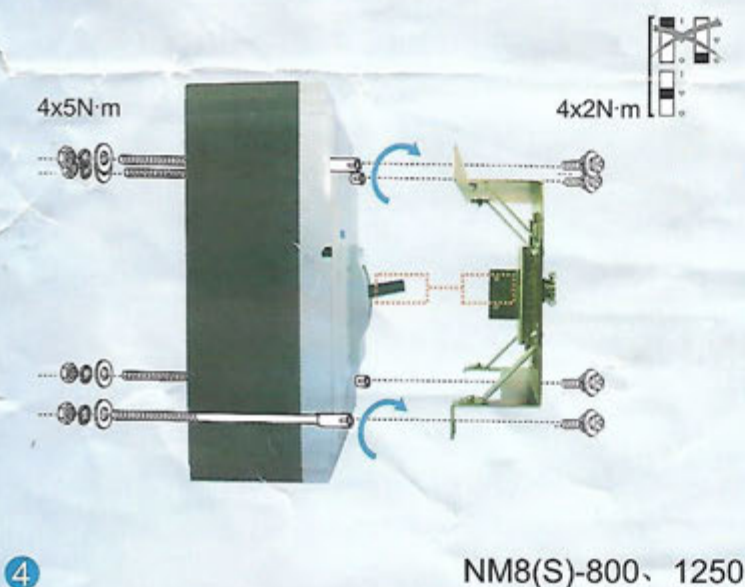
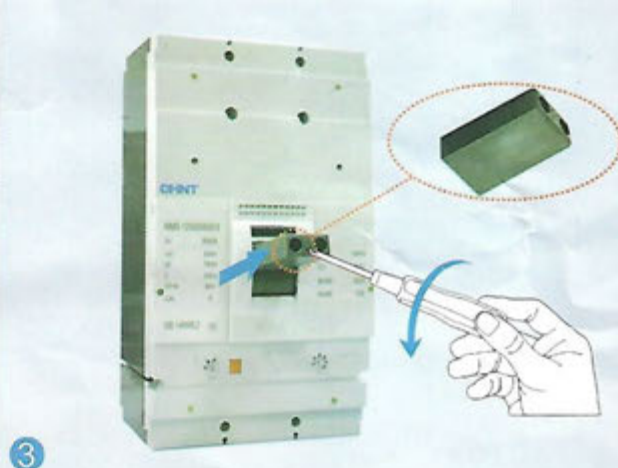
Type	NM8(S)-125 NM8(S)-250	NM8(S)-400 NM8(S)-630
Torque (N·m)	0.6	1.2

NM8(S)Series Manual of Direct operator

CHINT



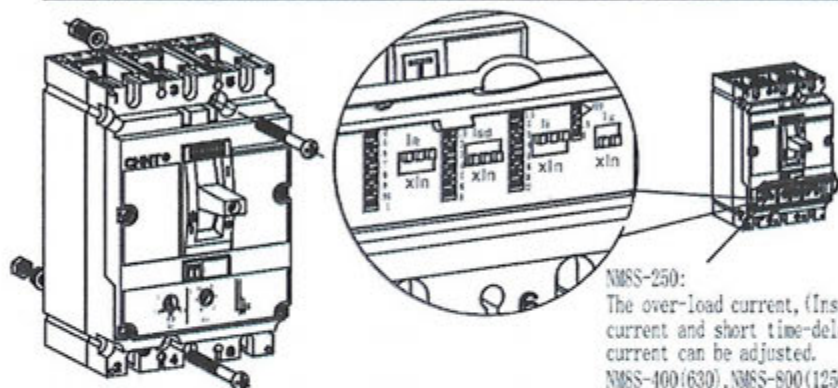
NM8-125/3P	2xM5x90	
NM8-125/4P	4xM5x90	
NM8S-125/3P	2xM5x100	
NM8(S)-250/3P	2xM5x100	
NM8S-125/4P	4xM5x100	
NM8(S)-250/4P	4xM5x100	
NM8(S)-400	4xM5x140	
NM8(S)-630	4xM5x140	
NM8(S)-800	4xM6x165	
NM8(S)-1250	4xM6x165	



NM8(S) Moulded Case Circuit Breaker Manual

Please Note:Electrical equipment should be installed,operated,serviced,and maintained only by qualified personnel.No responsibility is assumed by Chint for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation,and has received safety training to recognize and avoid the hazards involved.



NM8S-250:

The over-load current, (Instantaneous)short-circuit current and short time-delay short-circuit current can be adjusted.

NM8S-400(630),NM8S-800(1250)

The tripping time for over-load protection, (instantaneous)short-circuit protection and short time-delay short-circuit protection can be adjusted.

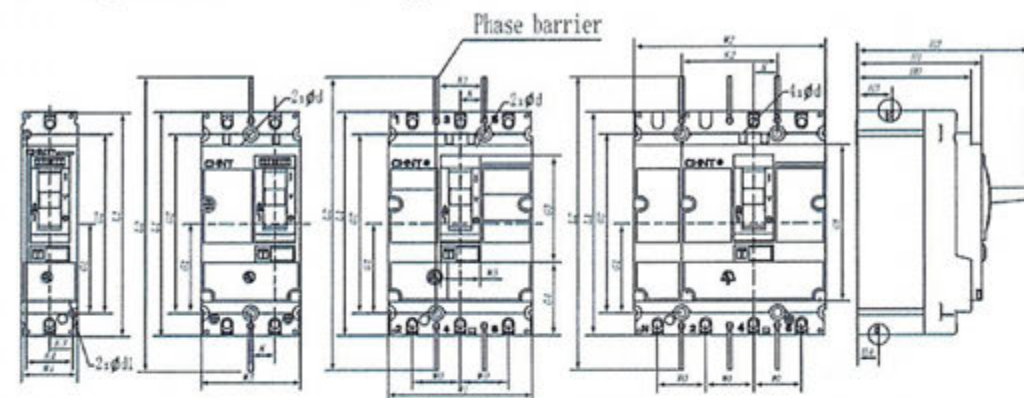
Cables terminals

			Torque (N.m)		Torque (N.m)
NM8-125	1P	2 (M3x65)	0.8	2 (M6x16)	6
	2P	2 (M5x65)	3	4 (M6x16)	
	3P	2 (M5x65)		6 (M6x16)	
	4P	4 (M5x65)		8 (M6x16)	
NM8(S)-250	1P	2 (M3x75)	3	2 (M8x20)	11
	2P	2 (M5x75)		4 (M8x20)	
	3P	2 (M5x75)		6 (M8x20)	
	4P	4 (M5x75)		8 (M8x20)	
NM8(S)-400 NM8(S)-630	3P	4 (M5x90)	3	6 (M10x30)	40
	4P	6 (M5x90)		8 (M10x30)	
NM8(S)-800 NM8(S)-1250 NM8S-1600	3P	4 (M5x140)	3	12 (M10x55)	50
	4P	6 (M5x140)		16 (M10x55)	

Tools:



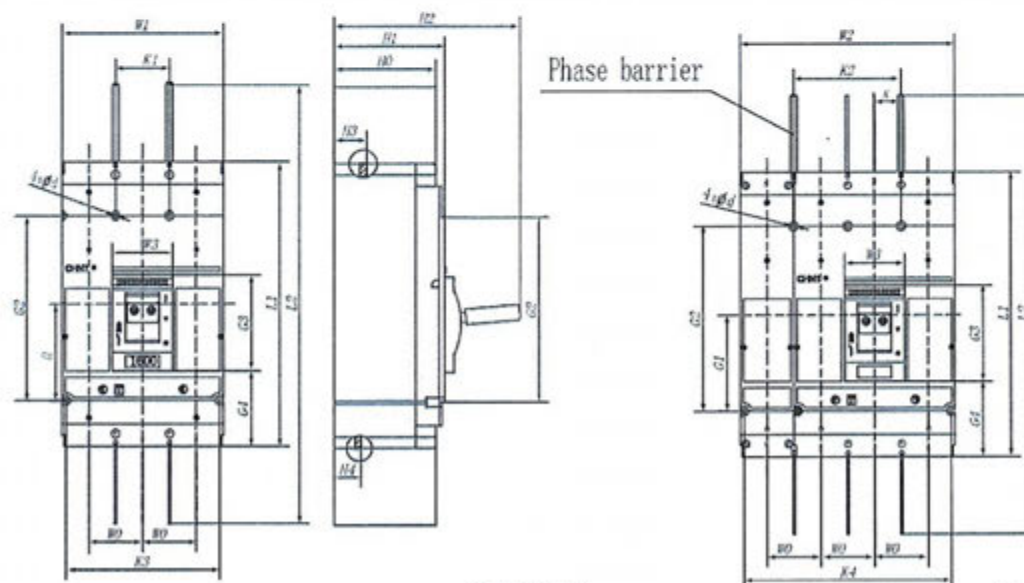
Mounting dimensions of fixed type



NM8(S)-125、250、400、630

(mm)

	L1	L2	H0	H1	H2	H3	H4	K	K1	K2	K3	K4	G1	G2	G3	G4	G5	W0	W1	W2	W3	W4	W5	d	d1
NM8-125	140	243	72	79	108	18.5	17.5	15	30	60	14.5	29	36	112	66.5	46	98	30	90	120	62	35	24.5	5.5	3.2
NM8(S)-250	157	273	82	88	126	22	20	17.5	35	70	16	32	62.5	125	75.5	47.5	110	35	105	140	70	35	26.5	5.5	3.1
NM8(S)-400 NM8(S)-630	255	482	109	113	168	26	24	22.5	45	90			100	200	114	87		45	140	185			51.5	8.5	

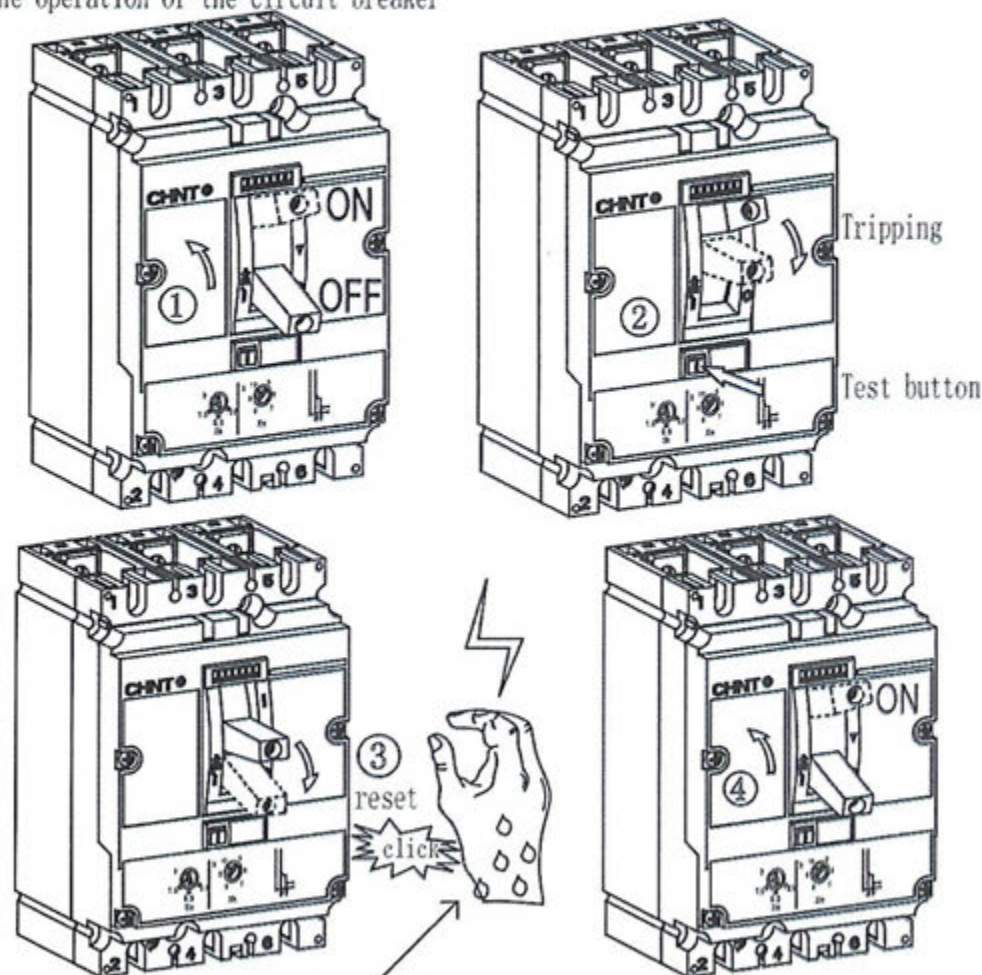


NM8(S)-800、1250、1600

(mm)

	L1	L2	N0	N1	N2	N3	N4	N	N1	N2	N3	N4	G1	G2	G3	G4	W0	W1	W2	W3	d
NM8(S)-800 NM8(S)-1250	370	365	141	145	240	60.5	60.5	35	70	140	200	270	120	240	125	98	70	210	280	78	6.5
NM8-1600	370	365	146	150	245	63.5	63.5	35	70	140	200	270	120	240	125	98	70	210	280	78	6.5

The operation of the circuit breaker



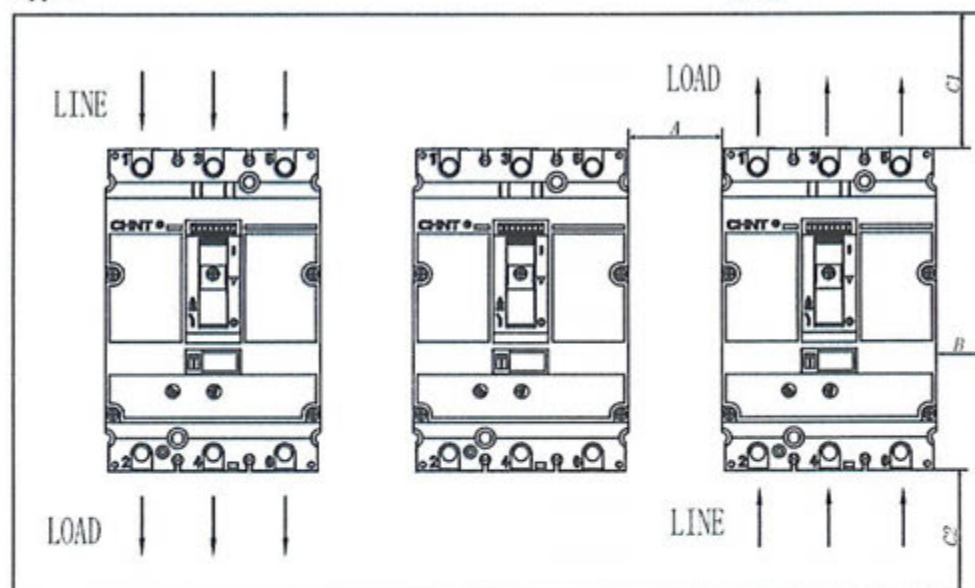
Warning: Forbidden wet hand to operate the circuit breaker

CHNT

Modes of down-lead

Upper

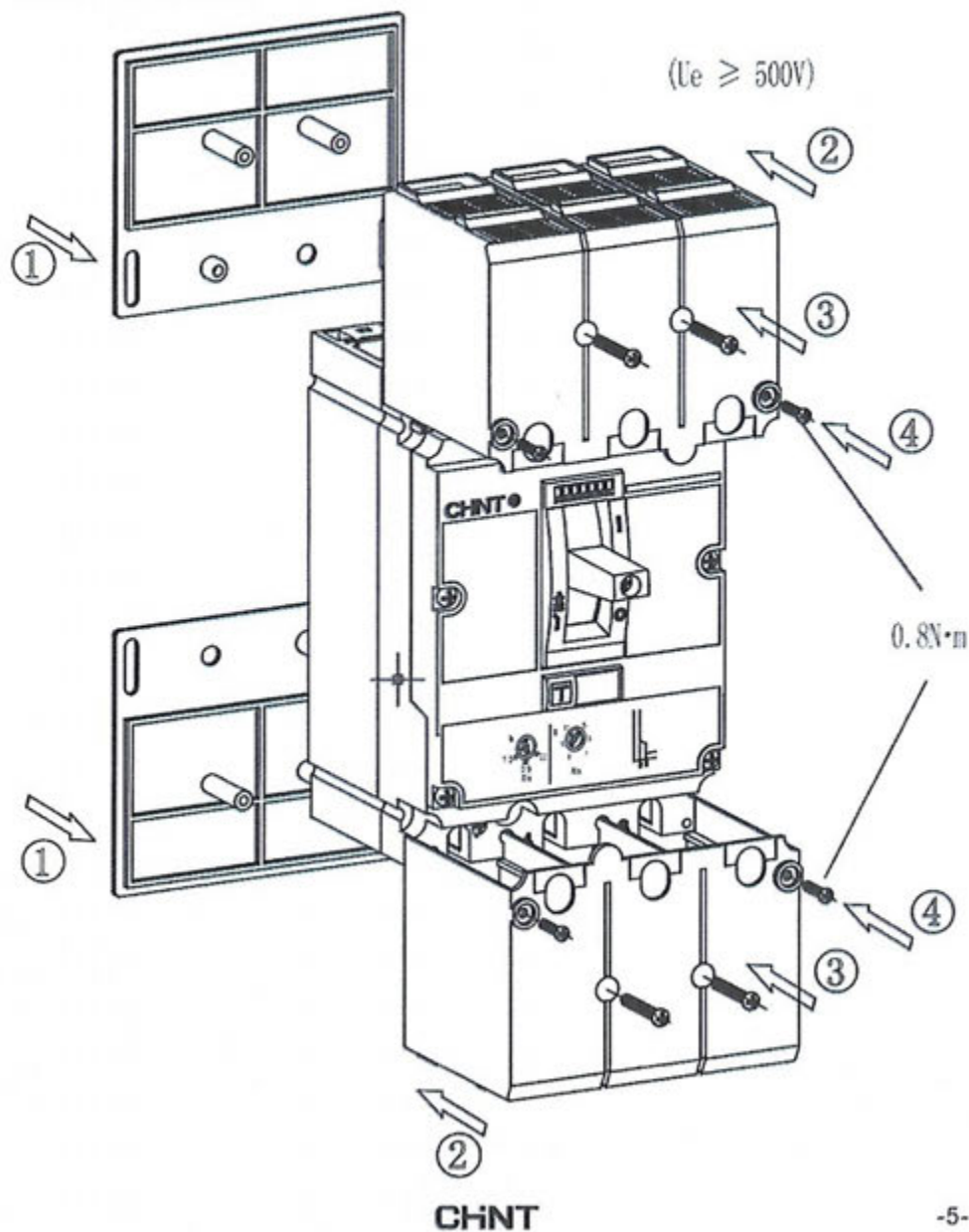
Lower



NM8	Ue(V)	A	B	Insulation plate insulation connection terminal(mm)		white or colored metal plate(mm)	
				C1	C2	C1	C2
NM8-125	≤ 440	0	5	30	30	35	35
	< 600		10	30	30	35	35
	≥ 600		20	30	30	35	35
NM8(S)-250	≤ 440		5	30	30	35	35
	< 600		10	30	30	35	35
	≥ 600		20	30	30	35	35
NM8(S)-400 NM8(S)-630	≤ 440		5	30	30	35	35
	< 600		10	30	30	35	35
	≥ 600		20	30	30	35	35
NM8(S)-800 NM8(S)-1250 NM8-1600			10	130	100	70	70

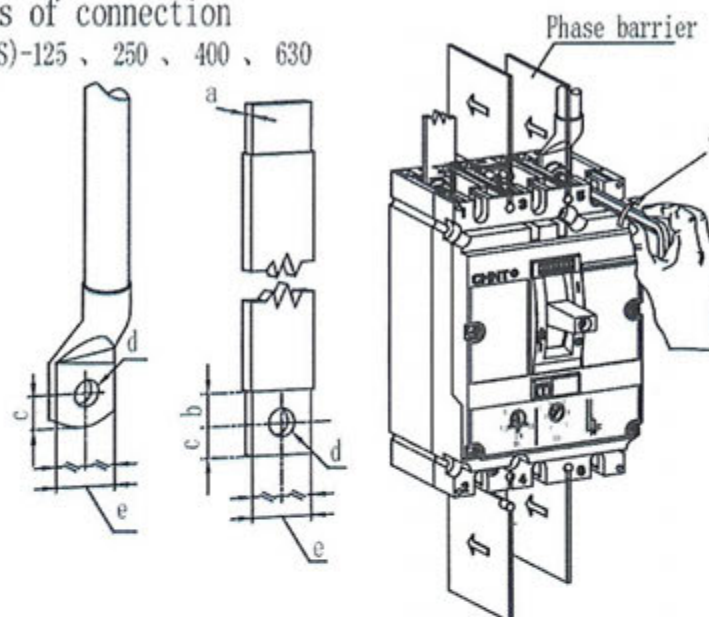
CHNT

Warning: when voltage $\geq 500V$, extended terminal cover should be mounted.

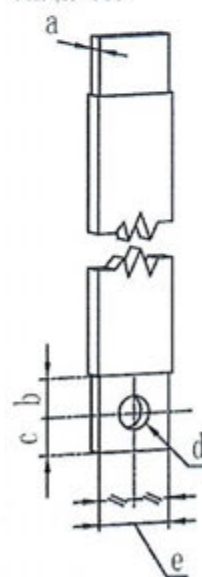


Modes of connection

NM8(S)-125, 250, 400, 630



NM8S-1600
NM8(S)-1250
NM8(S)-800



	a (mm)	b (mm)	c (mm)	d (mm)	e (mm)	f (N·m)
NM8-125	4	(7 ≤ b ≤ 10)	≤ 8	∅6.5	15	10
NM8(S)-250	5	(10 ≤ b ≤ 12)	≤ 8.5	∅8.5	25	15
NM8(S)-400 NM8(S)-630	8	(10 ≤ b ≤ 15)	≤ 15	∅10.5	32	40
NM8(S)-800 NM8(S)-1250	15	(10 ≤ b ≤ 15)	≤ 15	∅10.5	50	50
NM8S-1600	20	(10 ≤ b ≤ 15)	≤ 15	∅10.5	50	50

Please check the torque of the connect screw regularly

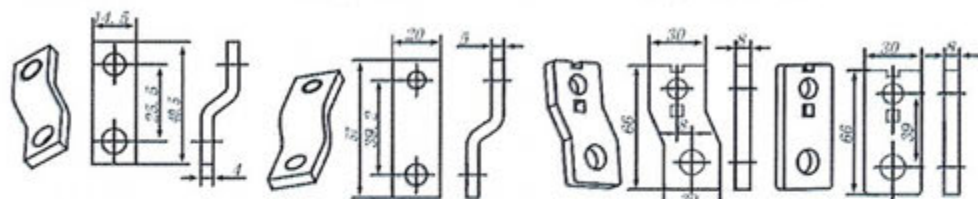
Front connection plate

(mm)

NM8-125

NM8(S)-250

NM8(S)-400、630

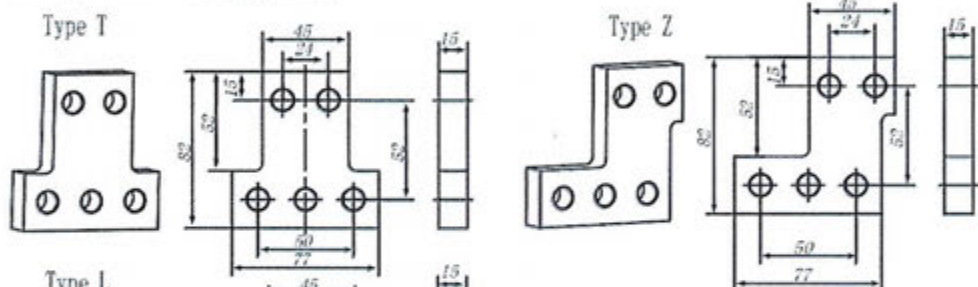


NM8(S)-800

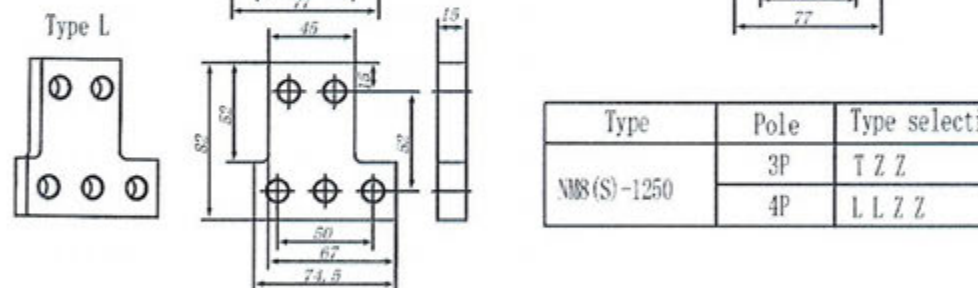
NM8(S)-1250

Type T

Type Z



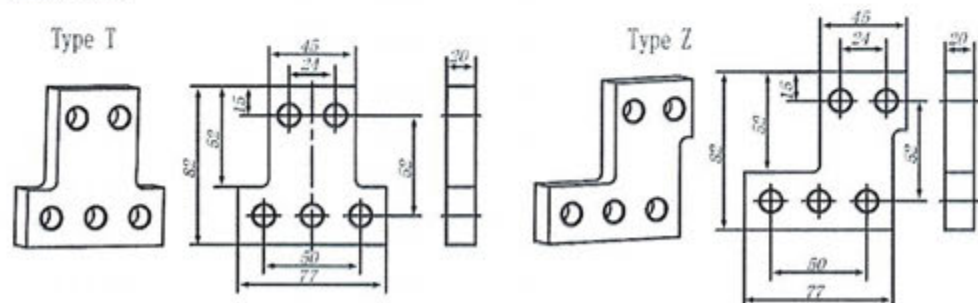
Type L



NM8S-1600

Type T

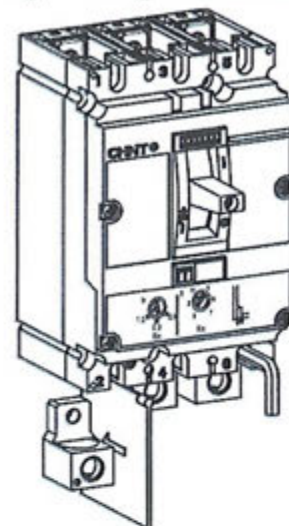
Type Z



CHNT

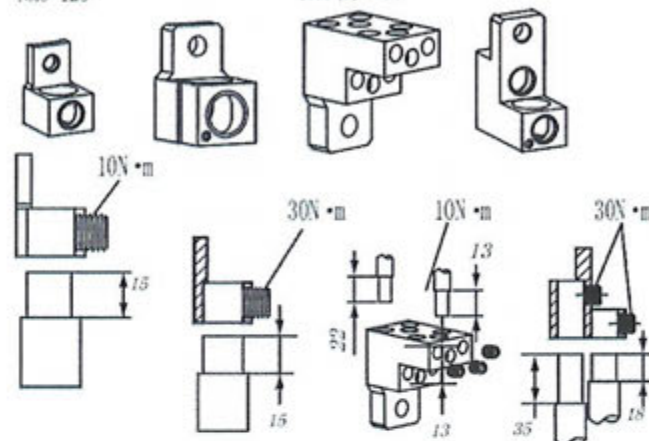
-7-

Cage clamp terminal

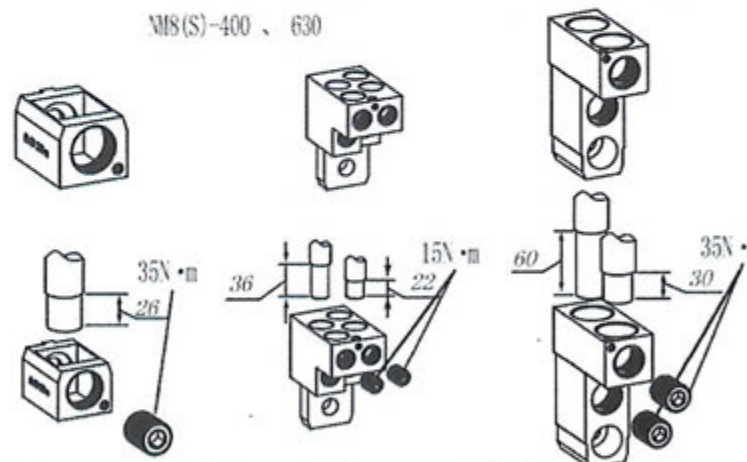


NM8-125

NM8(S)-250



NM8(S)-400、630



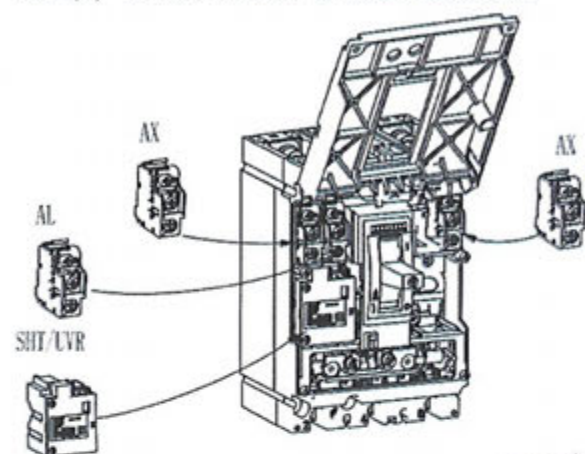
Normal cross-sectional area of the copper/aluminum conductor

Rated Current (A)		16	25	32	40	63	80	100	125	160	180	200	250	315	400	500	630	700	800	1000	1250	1600
cross sectional (mm) ²	Conductors	2.5	4	6	10	16	25	35	50	70	95	120	185	240	2x150	2x185	2x240	2x300	2x350	2x400	2x500	2x630
	Copper bars	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

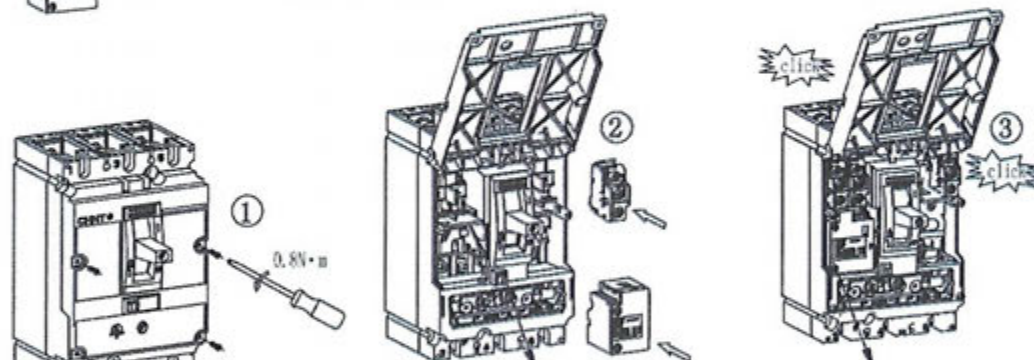
CHNT

-8-

NM8(S) Accessories & Installation

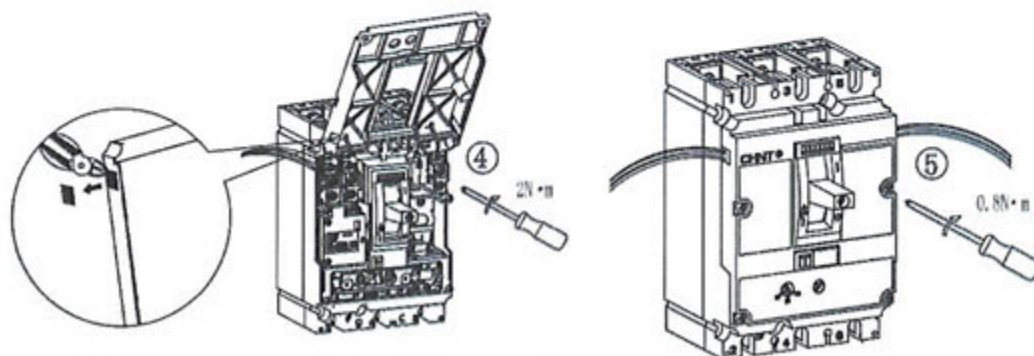


AX	Auxiliary Contact
AL	Alarm Contact
SHT	Shunt Release
UVR	Under-Voltage Release



Press the test-button when installing the SHT and UVR

Make sure the surface of release is aligned with the cover

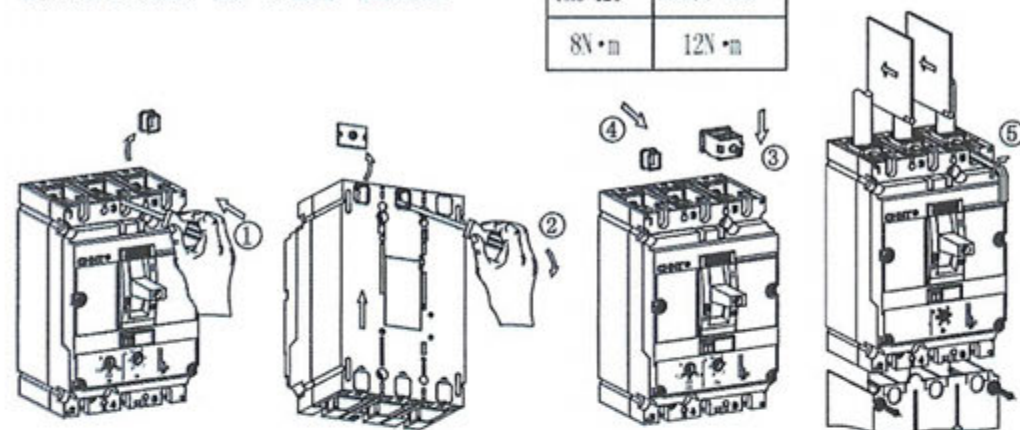


CHNT

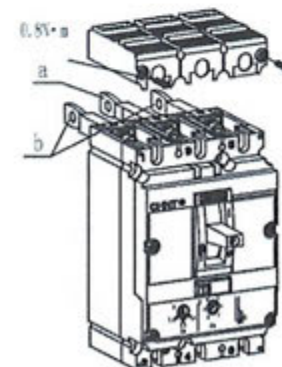
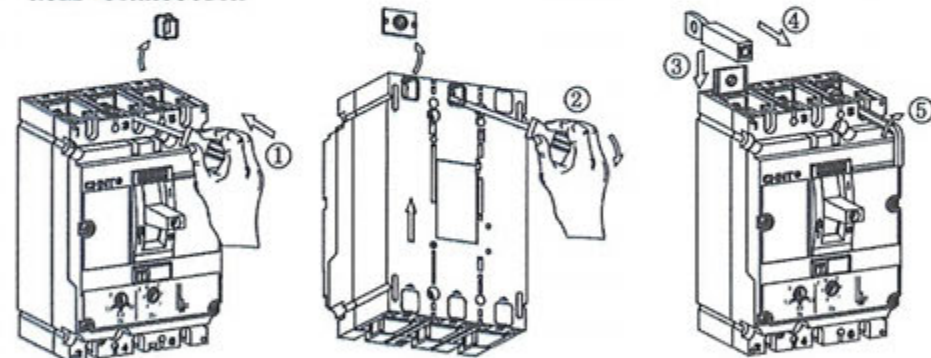
-9-

Connection of bare cable

NM8-125	NM8(S)-250
8N·m	12N·m



Rear Connection



	a (mm)	b (mm)	c (N·m)
NM8-125	97	57	5
NM8(S)-250	110	66	8
NM8(S)-400	125	65	20
NM8(S)-630			

CHNT

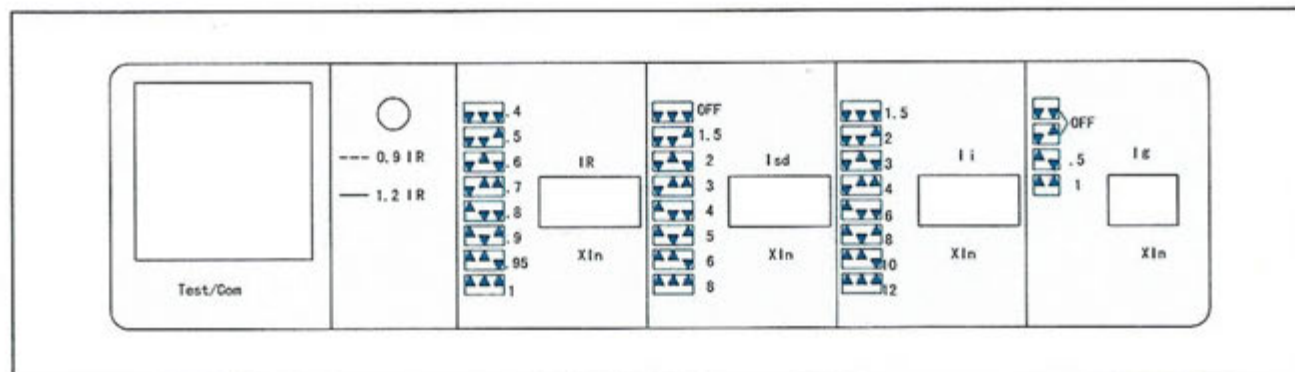
-10-

6.1.3 Characteristic of thermo protection operation of thermo-magnetic release for motor protection

Serial No.	Test current	I/In	Conventional time	Initial status
1	Conventional non-tripping current	1.0	>2h	Cold status
		1.2	≤2h	
2	Conventional tripping current	1.5	≤4min	Right after test 1
		7.2	4s ≤ T ≤ 10s	

6.2 Electronic Release

6.2.1 NM8S-125, 250 electronic release is an universal module. It is of 11 current specifications: 40A, 50A, 63A, 80A, 100A, 125A, 160A, 180A, 200A, 225A and 250A to adjust setting values and to meet protection requirements.

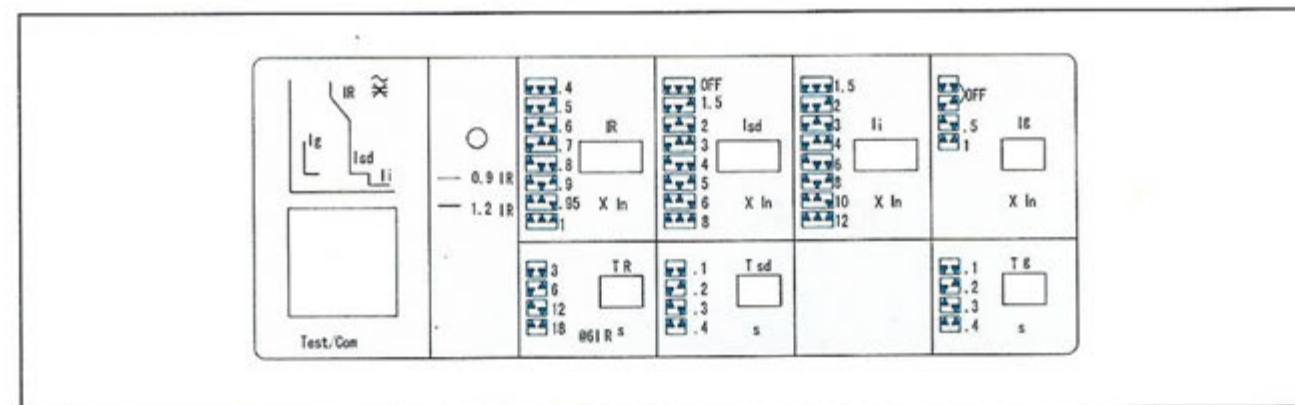


The indicator light flashes, when single-phase operational current is $\leq 90\% I_n$.

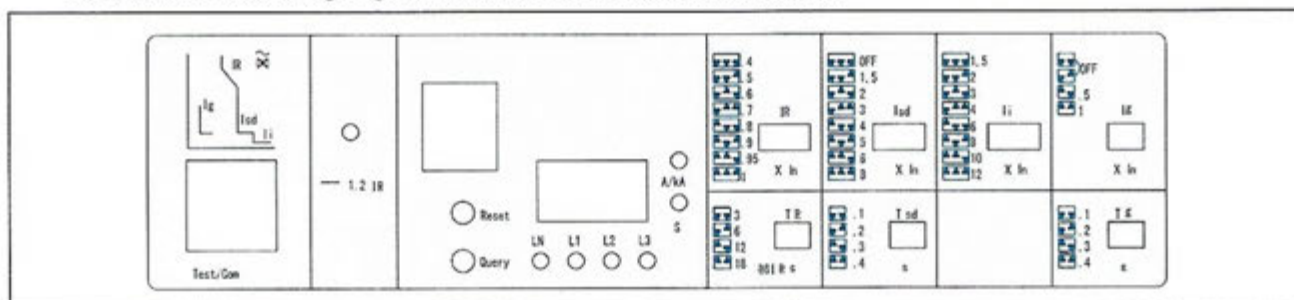
The indicator light is always lit, when single-phase operational current is $\geq 115\% I_n$.

Electronic release	NM8S-125	NM8S-250
Rated value In (A) 20~70℃	40, 50, 63, 80, 100, 125	100, 125, 160, 180, 200, 225, 250
Over-load protection	Thermal protection	
Tripping current I_n	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn
1.05 I_n	>2h non tripping	>2h non tripping
1.3 I_n	≤1h	≤1h
1.5 I_n	96s	96s
6 I_n	6s	6s
N-line protection	Adjustable range	Adjustable range
tripping current I_g	OFF, 0.5, 1XIn	OFF, 0.5, 1XIn
Tripping current I_i	Adjustable range	Adjustable range
	1.5, 2, 3, 4, 6, 8, 10, 12XIn	1.5, 2, 3, 4, 6, 8, 10, 12XIn
Short time-delay short current protection tripping current I_{sd}	Adjustable range	Adjustable range
	OFF, 1.5, 2, 3, 4, 6, 8XIn	OFF, 1.5, 2, 3, 4, 6, 8XIn

6.2.2 NM8S-400, 630 electronic release is an universal module. It is of 6 current specifications: 250A, 315A, 350A, 400A, 500A, and 630A to adjust setting values and to meet protection requirements. The release is of wide setting range and multi-functional modules can be selected. NM8S-400, 630 electronic release.



6.2.3 NM8S-800, 1250 electronic release is an universal module. It is of 5 current specifications: 630A, 700A, 800A, 1000A, and 1250A to adjust setting values and to meet protection requirements.
The release is of wide setting range and multi-functional modules can be selected.



Tripping current I_R , I_{sd} , I_i should be set with three-digit switch or rotary knob as per current.

● I_R setting of over-load protection

I_R could be adjusted as per customers' requirements,
and T_R , tripping time at the status of $6I_R$ can be set as per customers' requirements.

Model	1.05 I_R	1.3 I_R	1.5 I_R (s)	2.0 I_R (s)	6 I_R (s)
NM8S-400, 630	>2h non-tripping	<1h tripping	48, 96, 192, 288	27, 54, 108, 162	3, 6, 12, 18
NM8S-800, 1250	>2h non-tripping	<1h tripping	48, 96, 192, 288	27, 54, 108, 162	3, 6, 12, 18

● I_i indicator light for over-load status indication

The indicator light flashes, when single-phase operational current is $<90\% I_R$

The indicator light is always lit, when single-phase operational current is $\geq 115\% I_R$

● I_{sd} setting of short-circuit protection and tripping time

Setting value of current I_{sd} could be adjusted as per customers' requirements and OFF stands for status without ST protection;
 T_{sd} , the tripping time could be adjusted as per customers' requirements.

● I_{sc} setting of short-circuit protection

Value of setting current could be adjusted as per customers' requirements

● I_g setting of protection operations

As a 4P circuit breaker with N-line protection, setting value of current I_g could be adjusted as per customers' requirements and OFF stands for status without protection of N-pole; T_g , the operating time of N-pole could be adjusted as per customers' requirements.

Electronic release	NM8S-400	NM8S-630	NM8S-800	NM8S-1250
Rated value A In 20~70°C	250, 315, 350, 400	250, 315, 350, 400, 500, 630	630, 700, 800	630, 700, 800, 1000, 1250
long time-delay over-load protection (thermal protection)				
Tripping current I_R (A)	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn	Adjustable range 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 0.95, 1XIn
Tripping time $6I_R$ (s)	Adjustable range 3, 6, 12, 18	Adjustable range 3, 6, 12, 18	Adjustable range 3, 6, 12, 18	Adjustable range 3, 6, 12, 18
short time-delay short-circuit protection				
Tripping current I_{sd} (A)	Adjustable range OFF, 1.5, 2, 3, 4, 5, 6, 8XIn	Adjustable range OFF, 1.5, 2, 3, 4, 5, 6, 8XIn	Adjustable range OFF, 1.5, 2, 3, 4, 5, 6, 8XIn	Adjustable range OFF, 1.5, 2, 3, 4, 5, 6, 8XIn
Tripping time T_{sd} (s)	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4
(Instantaneous) short-circuit protection				
Tripping current I_{sc} (A)	Adjustable range 1.5, 2, 3, 4, 6, 8, 10, 12XIn 12In(for motor protection)	Adjustable range 1.5, 2, 3, 4, 6, 8, 10, 12XIn 12In(for motor protection)	Adjustable range 1.5, 2, 3, 4, 6, 8, 10, 12XIn 12In(for motor protection)	Adjustable range 1.5, 2, 3, 4, 6, 8, 10, 12XIn 12In(for motor protection)
(N-line) protection				
Tripping current I_g (A)	Adjustable range OFF, 0.5, 1XIn	Adjustable range OFF, 0.5, 1XIn	Adjustable range OFF, 0.5, 1XIn	Adjustable range OFF, 0.5, 1XIn
Tripping time T_g (s)	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4	Adjustable range 0.1, 0.2, 0.3, 0.4

8.5 Modes of connection

8.5.1 Cable connection plug and Copper busbar

a. Screw is used to connect with copper (aluminum) cable connection plug or copper busbar

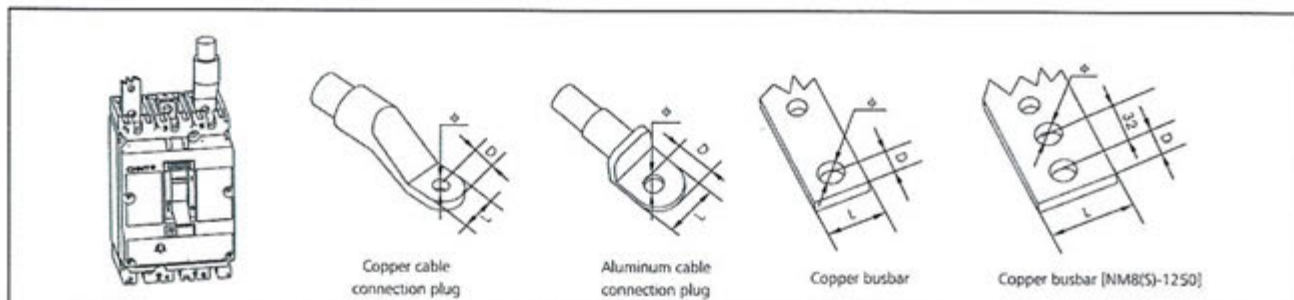
Size of connection screw

NM8-125: M6

NM8S-125, NM8-250, NM8S-250: M8

NM8-400, 630, NM8S-400, 630: M10

NM8-800, 1250, NM8S-800, 1250: M10



Dimension	NM8-125	NM8S-125 NM8-250 NM8S-250	NM8-400, 630 NM8S-400, 630	NM8-800, 1250 NM8S-800, 1250
Distance between different poles(mm)	30	35	45	70
L(mm)	≤ 15	≤ 25	≤ 32	≤ 50
D(mm)	≤ 7	≤ 10	≤ 16	≤ 16
ϕ (mm)	>6	>8	>10	>11

b. With front connection and use screw to connect

with copper (aluminum) cable connection plate or copper busbar

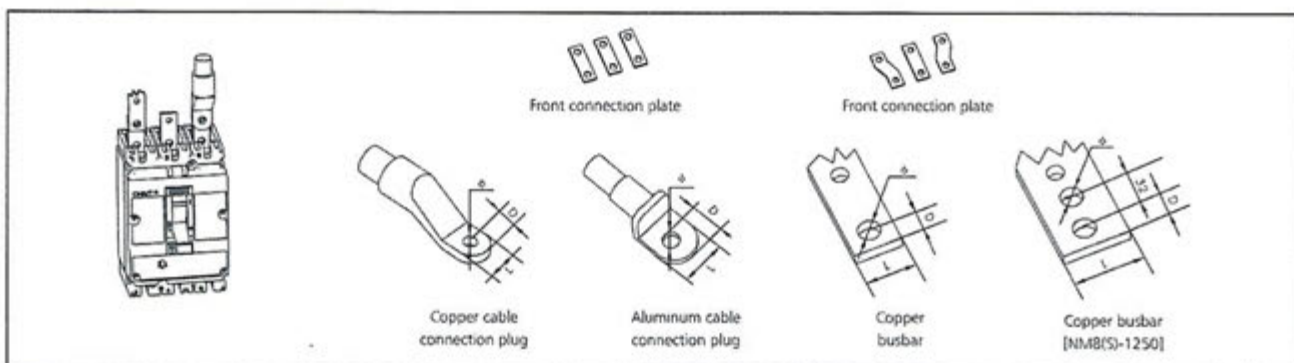
Size of connection screw

NM8-125: M6

NM8S-125, NM8-250, NM8S-250: M8

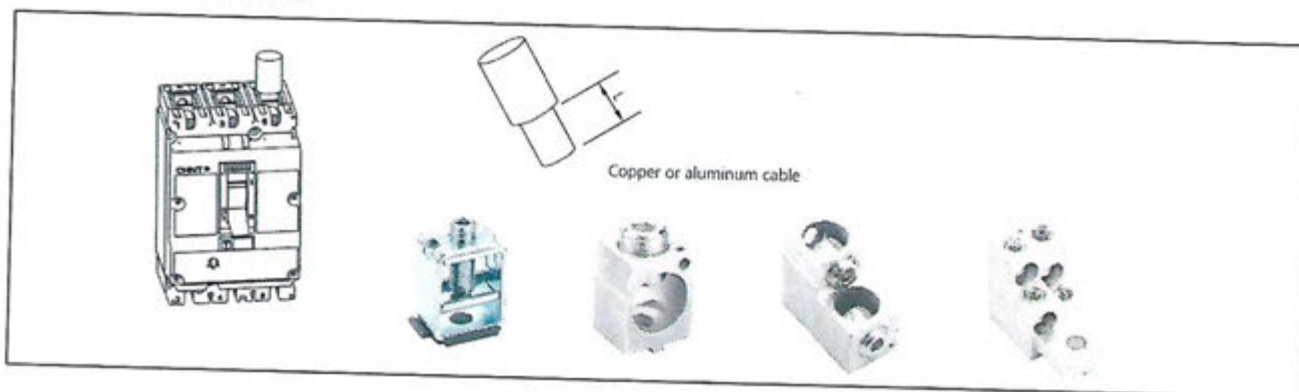
NM8-400, 630, NM8S-400, 630: M12

NM8-800, 1250, NM8S-800, 1250: M10



Dimension	NM8-125	NM8S-125 NM8-250 NM8S-250	NM8-400, 630 NM8S-400, 630		NM8-800, 1250 NM8S-800, 1250
Distance between different poles(mm)	30	35	52.5	70	70
L(mm)	≦ 15	≦ 25	≦ 40	≦ 60	≦ 50
D(mm)	≦ 7	≦ 10	≦ 20	≦ 20	≦ 16
Φ (mm)	>6	>8	>12	>12	>11

8.5.2 Connection of bare cable



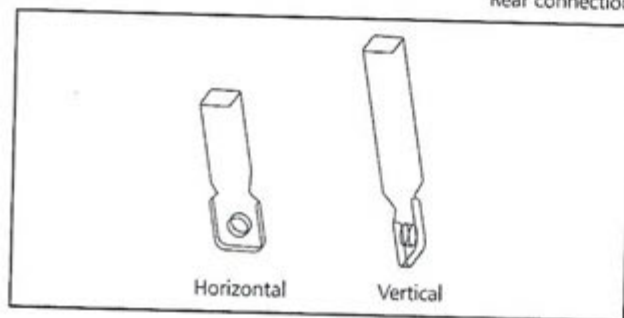
Dimension	NM8-125	NM8S-125 NM8-250 NM8S-250
L(mm)	16	20
CSA(mm ²)	2.5~70	2.5~185

Dimension	NM8-400, 630 NM8S-400, 630		
Number of cable	1	2	4
L(mm)	26	30, 60	30
CSA(mm ²)	35~370	35~185	35~125

8.5.3 Rear connection

For rear connection, cable connection plug should be used for connection with copper busbar.

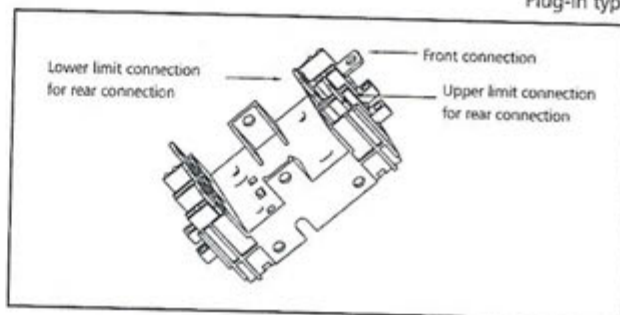
Rear connection



8.5.4 Plug-in type connection

Two modes of front and rear connection are available; for rear connection, upper limit or lower limit connection is used.

Plug-in type



8.5.5 Standard CSA of copper cable or busbar used for connection

Rated current(A)		16	20	25	32	40	50	63	80	100	125	160	200	250	315	350	400	500	630	700	800	1000	1250
Cross section area (mm ²)	Copper cable	2.5	2.5	4.0	6.0	10	10	16	25	35	50	70	95	120	185	185	240	2×150	2×185	2×240	2×240	-	-
	Copper busbar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2×30×5	2×40×5	2×50×5	2×50×5	2×60×5	2×70×5

ZHEJIANG CHINT ELECTRICS CO., LTD

Declaration of accessories for NM8 & NH18 connections

Dear Chint's Distributors and Customers,

In order to further promote Chint's products and services in the Israel market, facilitate the installation and connection of NM8 and NH18, we have confirmed the followed information of NM8 and NH18 accessories:

1. NM8 and NH18 can standardly work under the voltage up to 690V, which can cover the working voltage from 220V to 690V.
2. We also declare that the data of NM8 and NH18 accessories connections in attached file currently is correct.
3. NM8-630 built out double hole can work with cooper and aluminum.

All the above declaration have been tested and confirmed by Chint's quality and production departments, and we sincerely hope to receive any using reply from you.

The Declaration is applicable to Israel market only.

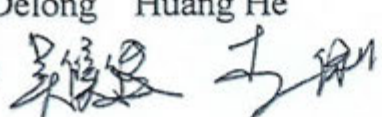
Thanks for your support and trust.

Manufacturing Department

Technical Director & Quality Management Director

Name: Ji Delong Huang He

Signature:

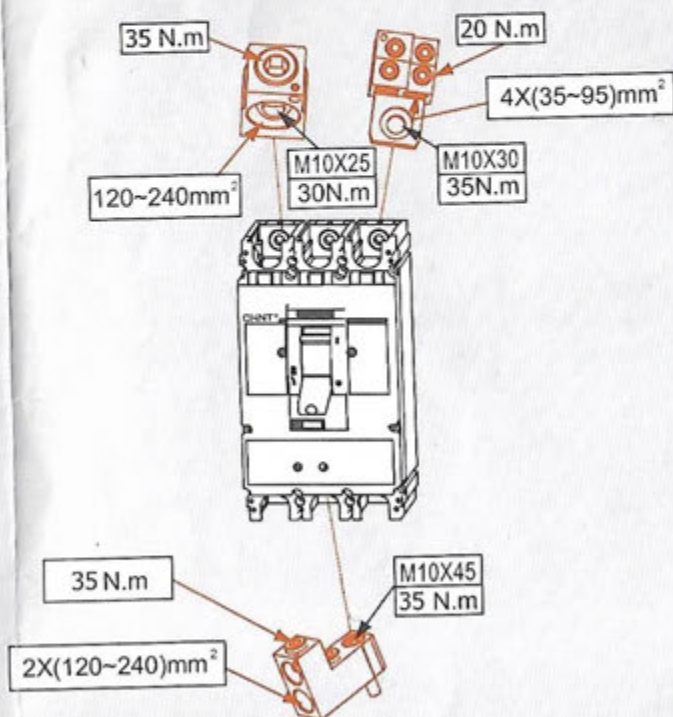


Date: 18th, Jan 2017

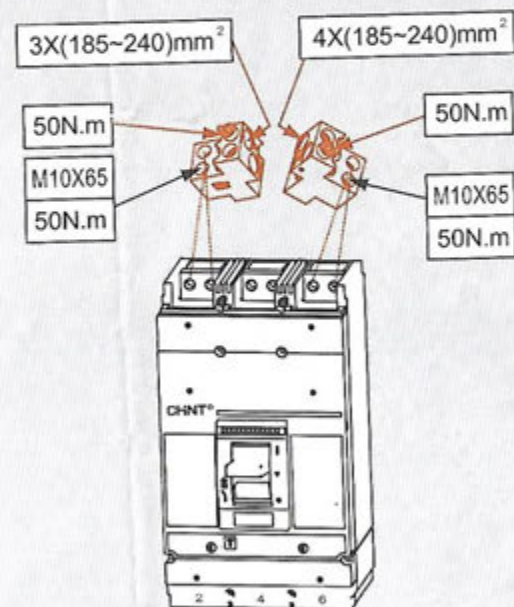
浙江正泰电器股份有限公司
ZHEJIANG CHINT ELECTRICS CO., LTD

TERMINALS

NM8(S)-400、630



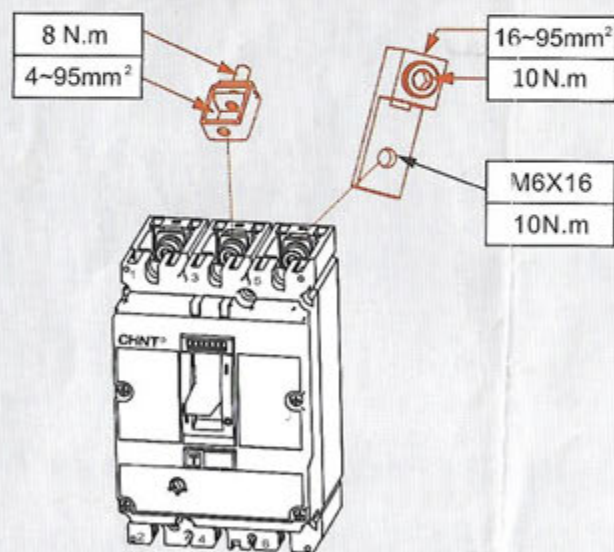
NM8(S)-800、1250



ZHEJIANG CHINT ELECTRICS CO., LTD

NM8 BOXING

NM8-125



NM8S-125、250 NM8-250

