



NM1 Series
Moulded Case Circuit Breaker

User Instruction

Safety Warning

- ① Only professional technicians are allowed for installation and maintenance.
- ② Installation in any damp, condensed-phase environment with inflammable and explosive gas is forbidden.
- ③ You are prohibited from touching the conductive part when the product is operating.
- ④ When the product is being installed or maintained, the power must be switched off.
- ⑤ Do not install it in a place where gaseous media can corrode metals and damage insulation.
- ⑥ In order to avoid dangerous accidents, the installation and fixation of the product must be carried out in strict accordance with the requirements of the user instructions.

1 Operating conditions

a) The normal operating ambient temperature of the product is $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$;

Note: if it is used within the range of $-25^{\circ}\text{C} \sim +70^{\circ}\text{C}$, please consult with the manufacturer

b) Please refer to the catalogue for the time-current characteristics and the correction coefficient regarding to temperature and altitude

c) Pollution degree: grade 3

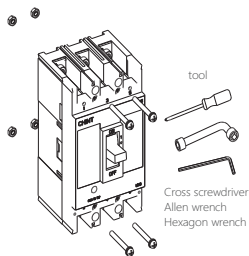
d) Class of pollution: Class 3

e) Main circuit installation category: III

f) IP degree: IP30

g) Rated insulation voltage U_i : 800V;

2 Inspection and Test

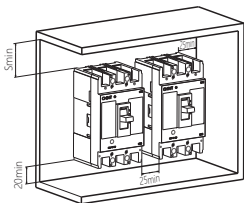


Model	Mounting screw	Quantity		
		2P	3P	4P
NM1-63S	M4×30	-	4	4
NM1-63H		-	4	4
NM1-125	M4×45	2	4	4
NM1-250		2	4	4
NM1-400	M6×75	-	4	4
NM1-630		-	4	4
NM1-800	M6×90	-	4	4
NM1-1250	M8×40	-	4	-



Determine product technical parameters;

Figure 1 Inspection



Unit: mm

Model	S
NM1-63 NM1-125 NM1-250	50
NM1-400 NM1-630 NM1-800 NM1-1250	100



Ensure minimum installation distance

Figure 2 Minimum installation distance

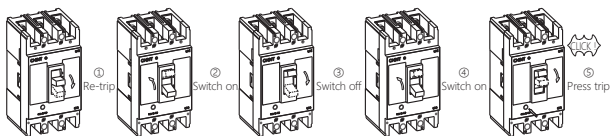


Figure 3 Test

3 Overall and mounting dimensions

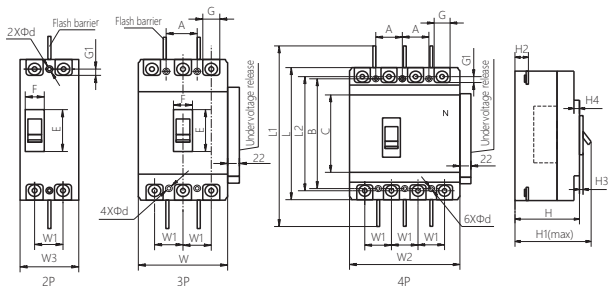


Figure 4 NM1-63, 125, 250

Table 1 Outline and Installation Size of NM1-63, 125, 250

Unit: mm

Size type	Size code	Product model							
		NM1-63S	NM1-63H	NM1-125S	NM1-125 H, R	NM1-125 H/2P	NM1-250S	NM1-250 H, R	NM1-250 S/2P
Outline size	C	85	85	85	85	85	102	102	102
	E	48	48	51	51	51	51	51	51
	F	23	23	23	23	23	23	23	23
	G	14	14	17.5	17.5	17.5	23	23	23
	G1	6.5	6.5	7.5	7.5	7.5	11.5	11.5	11.5
	H	71	80	68	86	86	87	103.5	85.5
	H1	91	100	86	104	102	110	127	109
	H2	19	28	24	24	24	24	24	23

Table 1 (Continued)

Size type	Size code	Product model							
		NM1-63S	NM1-63H	NM1-125S	NM1-125 H, R	NM1-125 H/2P	NM1-250S	NM1-250 H, R	NM1-250 S/2P
Outline size	H3	6	6	4	4	4	3.5	3.5	3.5
	H4	5	5	7	7	7	5.5	5.5	5.5
	L	135	135	155	155	150	165	165	165
	L1	235	235	255	255	250	362	362	362
	L2	117	117	136	136	130	144	144	144
	W	76	76	90	90	--	105	105	--
	W1	25	25	30	30	30	35	35	35
	W2	--	103	120	120	--	140	140	--
	W3	--	--	65	--	65	--	75	75
Installation size	A	25	25	30	30	--	35	35	--
	B	117	117	130.5	130.5	129	126	126	126
	Φd	4.5	4.5	4.5X6	4.5×6	4.5	5	5	5

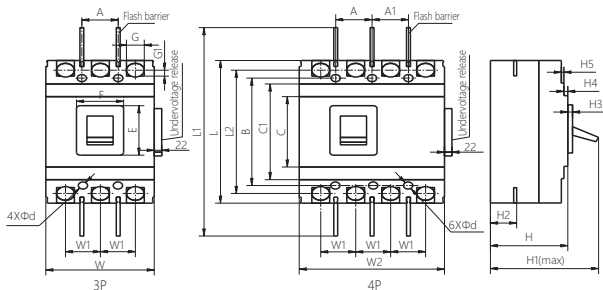


Figure 5 NM1-400、630、800、1250

Table 2 Outline and Installation Size of NM1-400, 630, 1250

Unit: mm

Size type	Size code	Product model							
		NM1-400 S, H, R/3P	NM1-400 S, H/4P	NM1-630 S, H, R/3P	NM1-630 S, H/4P	NM1-800 S, H, R/3P	NM1-800 S, H/4P	NM1-1250 S/3P	NM1-1250 H/3P
Outline size	C	128	128	136	136	136	136	204	204
	C1	174	174	184.5	184.5	204	204	316	345.5
	E	89	89	89	89	81	81	100	100
	F	66	66	66	66	66	66	78	78
	G	30	30	40.5	40.5	45	45	--	--
	G1	11.5	11.5	15.5	15.5	12	12	--	--
	H	107.5	107.5	112	112	116	116	141	141
	H1	162	162	164.5	164.5	168	168	202	202
	H2	40	40	42	42	42	42	55/57	55/57
	H3	6	6	6.5	6.5	4.5	4.5	19	19
	H4	5	5	3.5	3.5	5	5	2	2
	H5	4.5	4.5	4.5	4.5	8	8	4.5	4.5
	L	257	257	270.5	270.5	280	280	406	406
	L1	466	466	472	472	490	490	710	715
	L2	224	224	234	234	243	243	--	--
	W	150	--	182	--	210	--	210	210
	W1	48	48	58	58	70	70	70	70
	W2	--	198	--	240	--	280	--	--
Installation size	A	44	44	58	58	70	70	70	70
	A1	--	50	--	58	--	70	--	--
	B	194	194	200	200	243	243	375	375
	Φd	8	8	7	7	7	7	10	10

Note: The total length of NM1-1250H + body connection plate is 545mm.

4 Installation and wiring

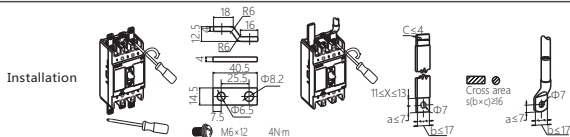


Figure 6 NM1-63S connecting plate and wire size

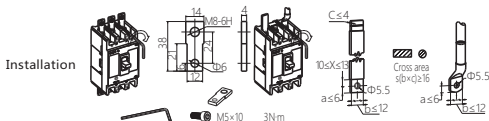


Figure 7 NM1-63H connecting plate and wire size

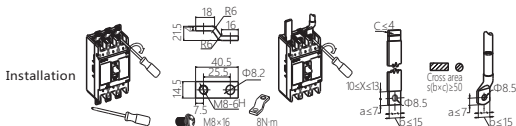


Figure 8 NM1-125 connecting plate and wire size

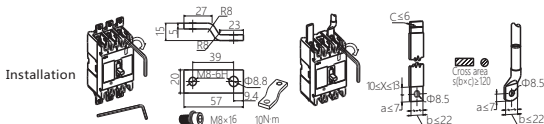


Figure 9 NM1-250 connecting plate and wire size

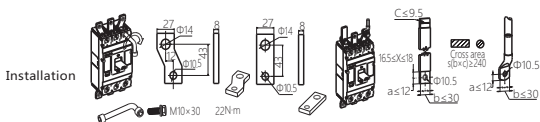


Figure 10 NM1-400 connecting plate and wire size

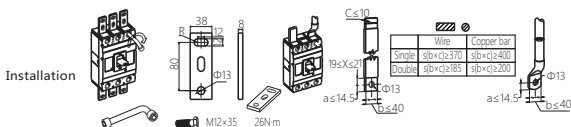


Figure 11 NM1-630 connecting plate and wire size

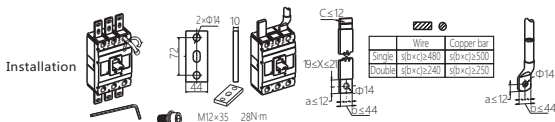


Figure 12 NM1-800 connecting plate and wire size

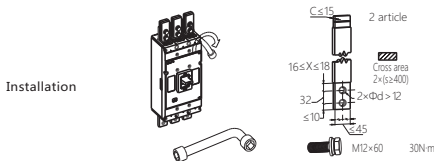


Figure 13 NM1-1250 connecting plate and wire size

5 Accessory Information

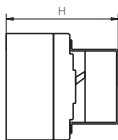


Figure 14 Overall and mounting dimensions of the motor driven mechanism

Table 3 Dimensions of NM1 Series Motor Driven Mechanism

Unit: mm

Size code	Product model									
	NM1-63S	NM1-63H	NM1-125S	NM1-125H NM1-125R	NM1-250S	NM1-250H NM1-250R	NM1-400S NM1-400H NM1-400R	NM1-630S NM1-630H NM1-630R	NM1-800H NM1-800R	NM1-1250S NM1-1250H
H	157	166	152	170	182	199	255	262	261	290

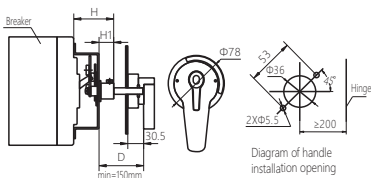


Figure 15 Dimensions of manual operated mechanism

Table 4 Installation Size of NM1 Series Manual Operating Mechanism

Unit: mm

Size code	Product model						
	NM1-63	NM1-125	NM1-250	NM1-400	NM1-630	NM1-800	NM1-1250
H	51	53	56.5	100	3P:90 4P:100	3P:100 4P:90	103
H1	20	20	20	20	3P:18 4P:20	3P:20 4P:18	18

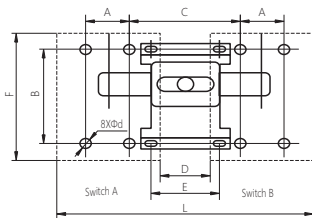


Figure 16 Installation Size of Mechanical Interlocking Mechanism

Table 5 Installation Size of Mechanical Interlocking Mechanism

Unit: mm

Product model	Product model							
	A	B	C	D	E	F	L	Φd
NM1-63	25	117	83	30	83	135	186	4.5
NM1-125	30	130.5	90	30	90	155	210	4.5X6
NM1-250	35	126	100	30	100	165	240	5
NM1-400	44	194	136	30	41	257	330	7
NM1-630	58	200	172	48	62	270.5	412	7
NM1-800	70	243	168	28	42	280	448	7

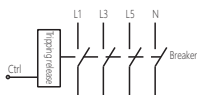


Figure 17 Wiring of special tripping release for prepaid electricity meter

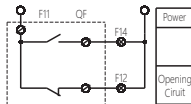


Figure 18 Auxiliary contact wiring

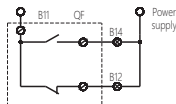


Figure 19 Wiring of alarm contact



Figure 20 Wiring of under voltage release

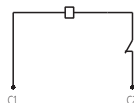


Figure 21 Wiring of Shunt release

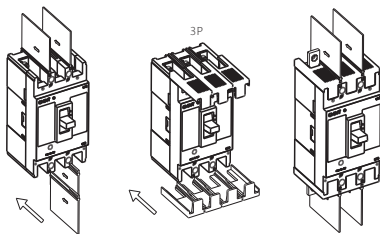
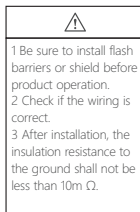


Figure 22 Interphase flash barrier or shield



6 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.

CHINT

QC PASS

NM1 Series
Moulded Case Circuit Breaker
IEC/EN 60947-2,
GB/T 14048.2

PD1 Check 15

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

NM1 Series Moulded Case Circuit Breaker User Instruction

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