

### 11. Accessories

Inner accessories



Accessory	Accessory code		Mounting and wiring mode			
	Magnetic only release	Compound release	NM1-125H,R NM1-250H,R	NM1-63S,H NM1-125C,S,H,R NM1-250S,H NM1-400S,H,R NM1-630S,H,R NM1-800H, R		NM1-1250H
				2P	3P 4P	
No accessory	200	300				
Alarm contact	208	308				
Shunt release	210	310				
Auxiliary contact	220	320				
Under-voltage release	230	330				
Shunt release, auxiliary contact	240	340				
Shunt release, under-voltage release	250	350				
Two groups of auxiliary contacts	260	360				
Auxiliary contact, under-voltage release	270	370				
Shunt release, alarm contact	218	318				
Auxiliary alarm contact	228	328				
Under-voltage release, auxiliary alarm contact	238	338				
Shunt release, auxiliary alarm contact	248	348				
Two groups auxiliary contact of auxiliary alarm contact	268	368				
Under-voltage release auxiliary alarm contact	278	378				

Note : ■ Shunt release ▲ Under-voltage release ○ Auxiliary contact ● Alarm contact



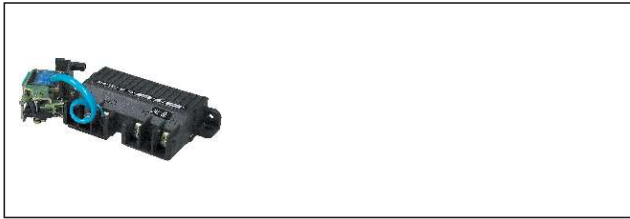
11.1 Under-voltage release

- a.  $U_n = 70\% \sim 35\% U_s$ , reliable operation
- b.  $U_n < 35\% U_s$ , prevent breaker from making
- c.  $U_n > 85\% U_s$ , guarantee the breaker making

The rated voltage of the under-voltage release is 50Hz, 230V and 400V.

Code of under-voltage release

code	A2	A4
voltage	AC 230V	AC 400V
rated frequency	50Hz	50Hz



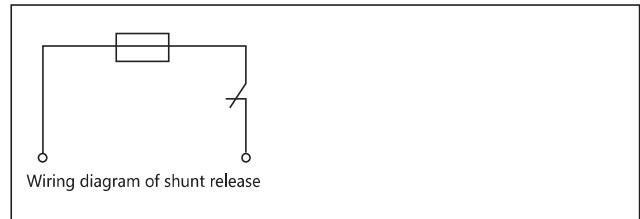
11.2 Shunt release

The rated control voltage of shunt release is 50Hz, 230V and 400V.  
 $U_n = 70\% \sim 110\% U_s$ , reliable operation

Code of shunt release

code	A2	A4	D3
voltage	AC 230V	AC 400V	DC 24V
rated frequency	50Hz/ 60Hz	50Hz/ 60Hz	-

Note: when voltage is DC 24V, rated current should be up to  $5A \pm 10\%$



11.3 Auxiliary contact and alarm contact

Rated parameter of auxiliary contact

Frame size	Conventional heating current $I_{th}$ (A)	Rated current $I_e$ (A) at AC 400 V	Rated current $I_e$ (A) at DC 230 V
$I_{nm} \leq 250A$	3	0.26	0.14
$I_{nm} \geq 400A$	6	3	0.2



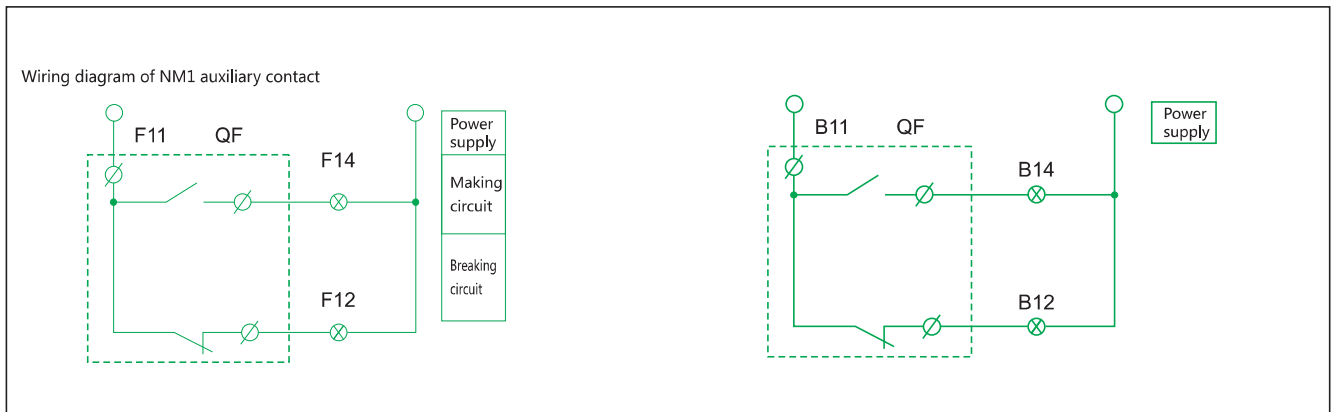
a. Auxiliary contact

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

b. Alarm contact

When circuit breaker normally makes and breaks, alarm contact doesn't operate. After free release (or release due to failure) alarm contact operate; and after the circuit breaker operates again, alarm contact returns to the original status.

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



External accessories

11.4 Motor-driven operation mechanism

Items	Model	NM1-63 NM1-125, NM1-250, NM1-400, NM1-630, NM1-800, NM1-1250
Structure form		Motor
Code of AC/DC voltage		A1/D1, A2/D2, A4

Note: A1 AC 110V, A2 AC 230V, A4 AC 400V, D1 DC 110V, D2 DC 230V