CHINT ELECTRIC | Next series

The Next Reliable Choice

Moulded Case Circuit Breaker

CHINT·Empower the World

Founded in 1984, CHINT Group is a leader in Chinese industrial electric appliance and new energy sectors. With total assets of 36.5 billion RMB and nearly 30 thousand employees, the company is running business that covers the whole power equipment industrial chain including power generation, transmission, transformation, distribution, and consumption. The company is also operating in the fields of urban rail traffic, energy equipment manufacturing, new energy storage materials, Energy Internet, investment & financing platform, and business incubator. The products have been sold to over 120 countries and regions around the world, and have entered main component markets in Europe, Asia, Middle East, and Africa.

The group ranks among top 500 private enterprises in China, and has been the largest tax payer among all manufacturers in Wenzhou for a few consecutive years. Zhejiang CHINT Electric Appliance Corporation under CHINT Group is the largest company in domestic LV electric appliance industry in terms of production and sales amount, and also the first company running LV electric appliance as main business listed in A-share market. CHINT Solar has built over a hundred photovoltaic power stations around the world, serving as the largest photovoltaic power station investor and operator in all domestic private players.

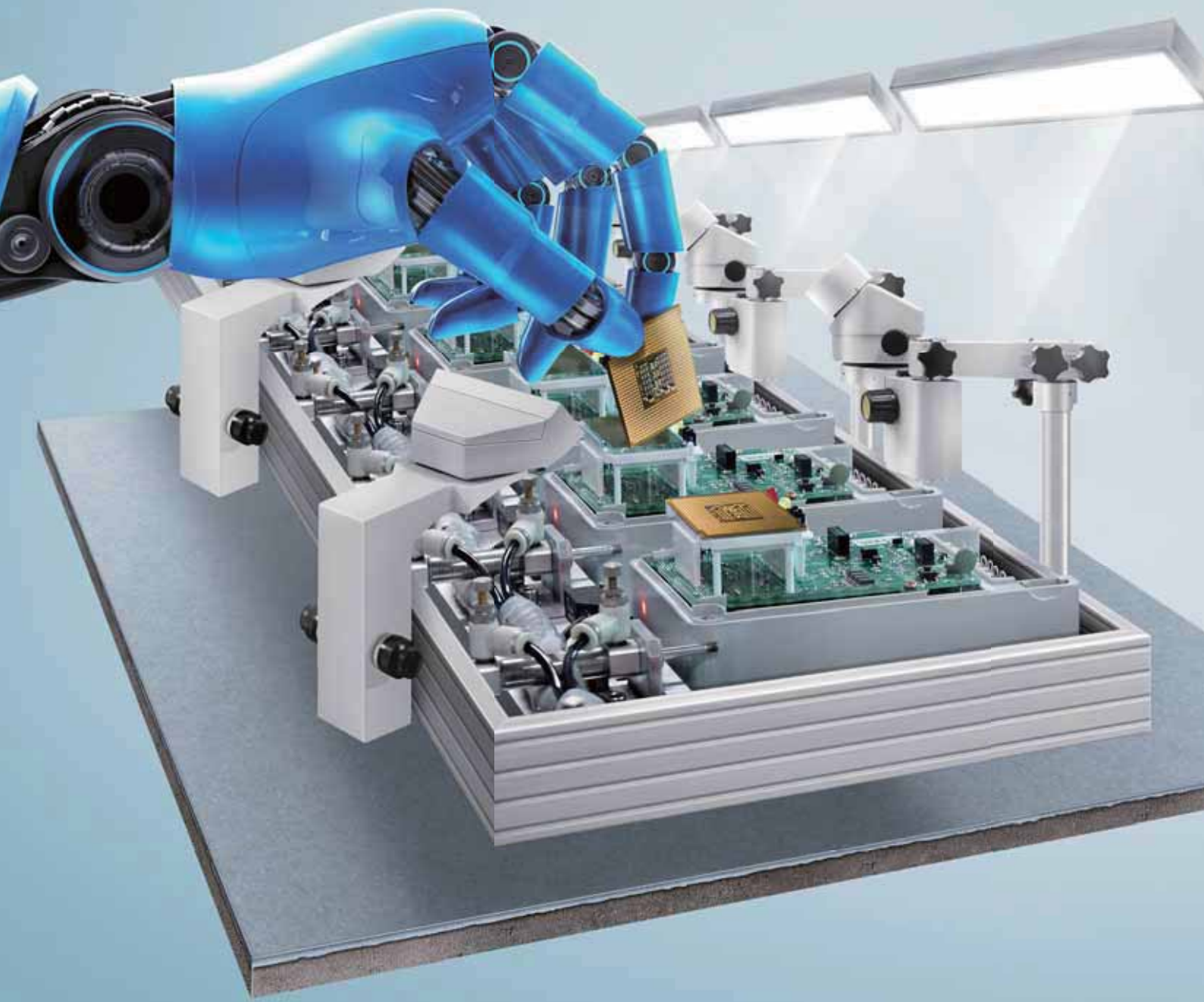
CHINT has always following the policies of innovation-driven industrial development. It's the first among all competitors to pass ISO9001 quality system certification, ISO 14001 environment system certification, and OHSAS18001 occupational health safety management certification. The group also holds China Compulsory Certificate (CCC), international CB safety certificate, US UL certificate, Finland FI certificate, Belgium CEBEC certificate, Netherland KEMA certificate, and Germany VDE certificate. The group now owns over 1000 domestic and foreign patents, and has led or participate in establishment and revision of over 120 industrial standards. Its HV and LV electric appliances and photovoltaic inverters won Germany Wed Dot Award. CHINT led development of critical manufacturing equipment PECVD, LPCVD, and MOCVD for China's first silicon based thin film photovoltaic cells, which has significantly improved semiconductor equipment manufacturing level in China.

The group has won a number of awards including China Industrial Award, National Quality Management Award, China Excellent Private Science & Technology Enterprise, China Top Ten Machinery Manufacturers with Core Competitiveness, China Top Ten Leading Private Enterprises with Independent Innovation Capabilities, China Contract-Fulfilling and Trustworthy Enterprise, National Advanced Private Enterprise for Employment and Social Security, and China Charity Award.

In the future, CHINT will march towards the targets of creating world famous brands and contributing to an industrial power. It will focus on building the Energy Internet and becoming a smart energy developer and operator. The group will make great efforts to implement three policies: globalization, M&A and integration, and smart manufacturing. Four platforms will be created, including scientific innovation and industrial incubation platform, online industrial and civil Internet of Things platform, online & offline supply chain interaction platform, and investment & financing and payment platform. Four industrial clusters will also be developed, including smart electrical system solution industrial cluster for smart grid, industrial automation information cluster for smart cities, clean energy, environment protection, and energy conservation industrial cluster for smart micro-grid, high-tech material information technology and high-end equipment industrial cluster for smart manufacturing, and Internet of Things IT and smart home industrial group for smart business.

The brand-new electronic release

Manage fault accurately
Operate more efficiently and reliably



CHINT ELECTRIC | Next series

The Next Reliable Choice

Moulded Case Circuit Breaker

Detailed division of frame size, with more options

Select the most suitable frame size, increase the product cost performance and reduce costs of using.

The brand-new electronic release, provide more accurate circuit protection

The all-new electronic release can deal with the hidden fault more accurately, with a more convenient parameters setting.

Dual insulation design, for a more convenient maintenance

Enhance the insulating capacity of the product, allowing the accessories installation, which make the maintenance more safe and efficient.

With a USB port for better human-machine interaction

Connected with PC devices through the USB port, lets you manage functions such as data reading, parameter setting, on-line detection and failure recording.

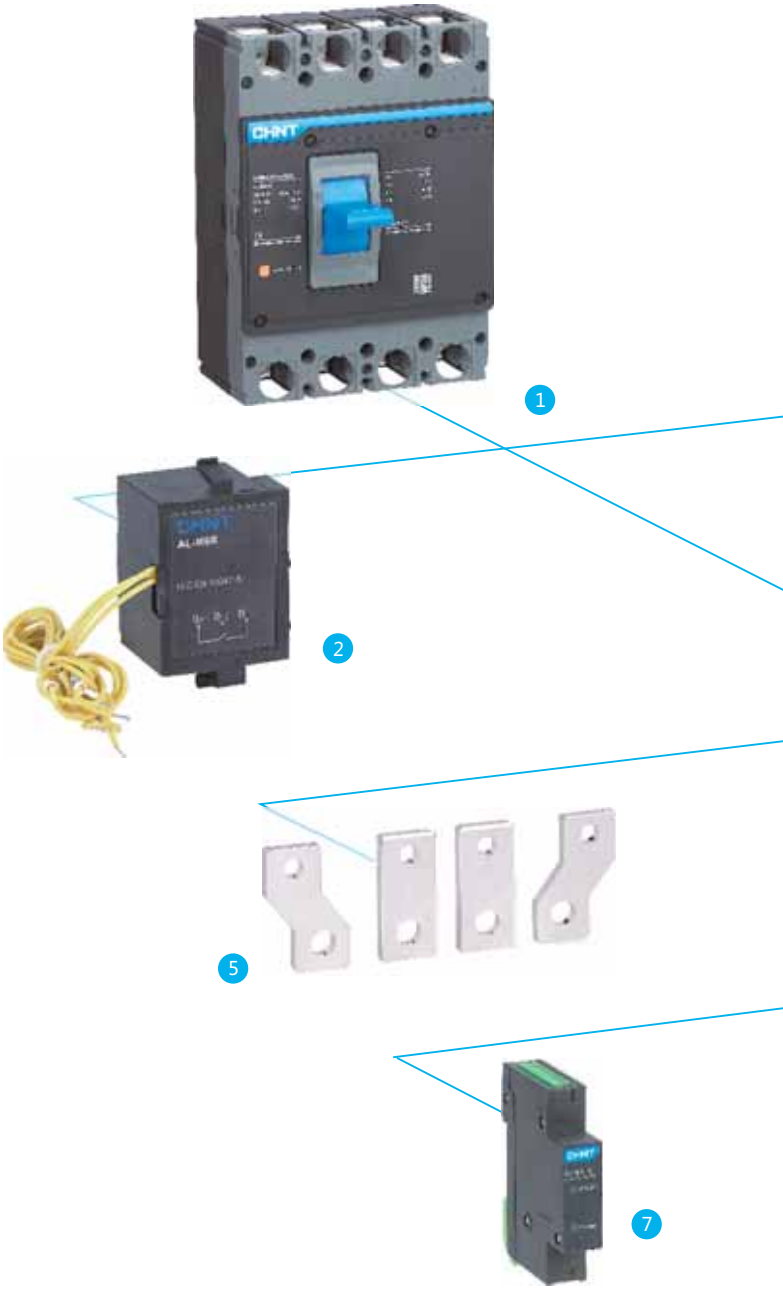
Absolute adaptability, with steady and reliable operation in extreme conditions

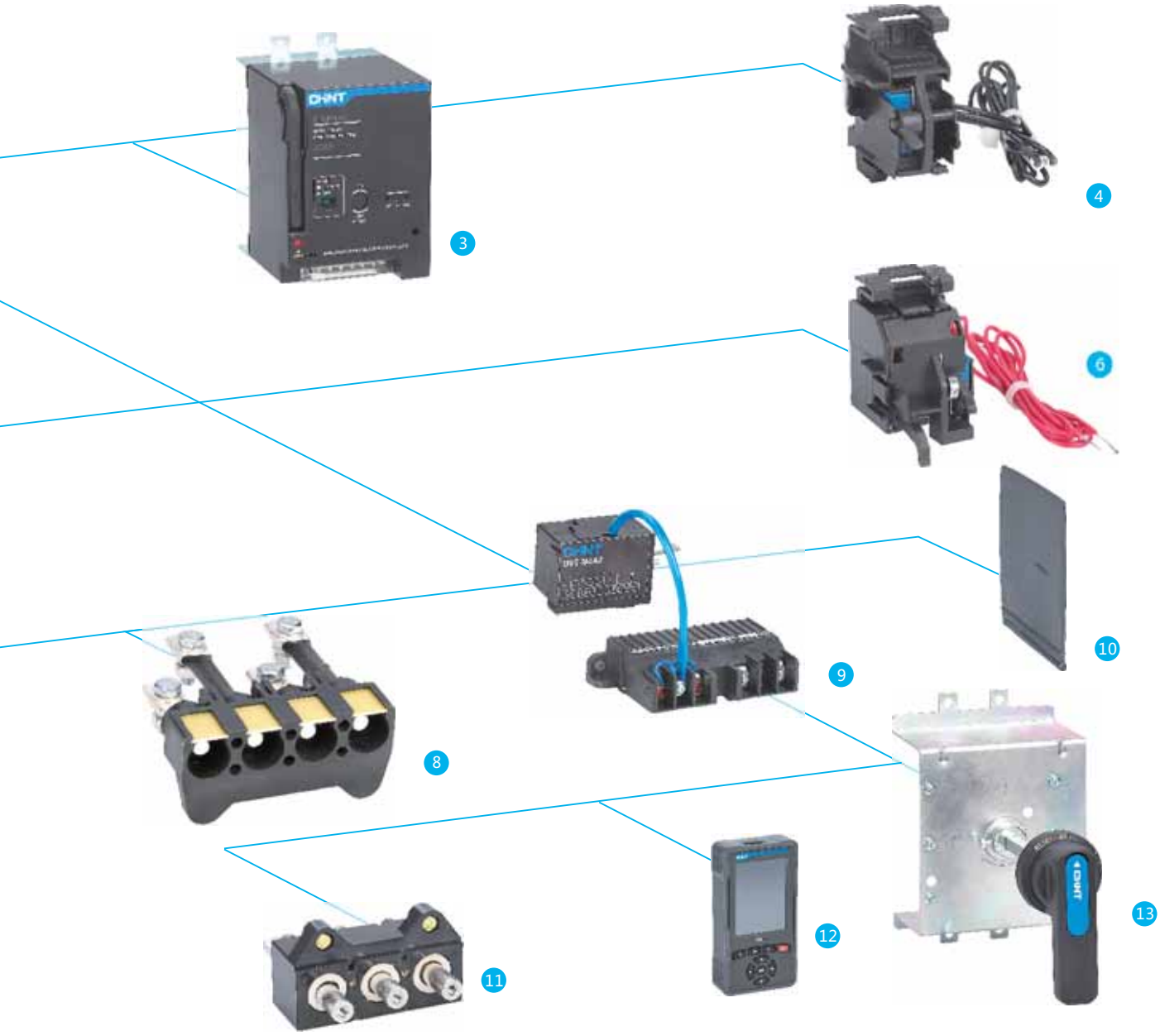
-35°C/+70°C operating temperature range. Meets several applications requirements.

NXM series moulded case circuit breaker

Accessories

1	Body
2	Alarm contact (optional)
3	Motor-driven mechanism (optional)
4	Auxiliary contact (optional)
5	Connection plate (optional)
6	Shunt release (optional)
7	Communication module(optional)
8	Rear connection plate (optional)
9	Under voltage release (optional)
10	Interphase barrier (standard)
11	Plug-in basement(optional)
12	Handheld test module(optional)
13	Manual operation mechanism (optional)

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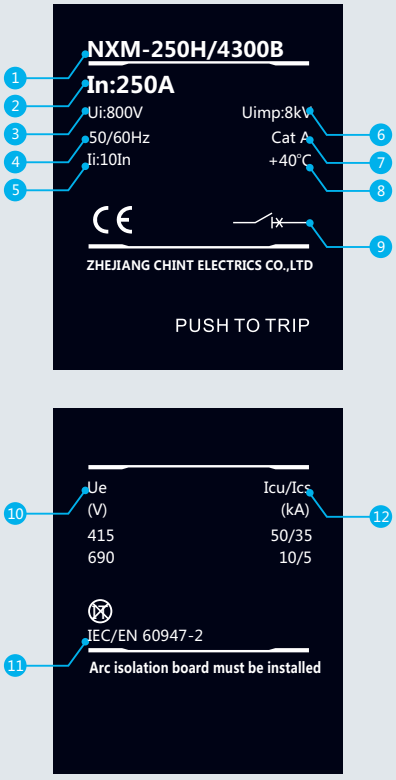
Overview

NXM-250H/4300B

NXMS-250H/3300



NXM Nameplate of thermomagnetic stationary molded case circuit breaker

NXM series moulded case circuit breaker

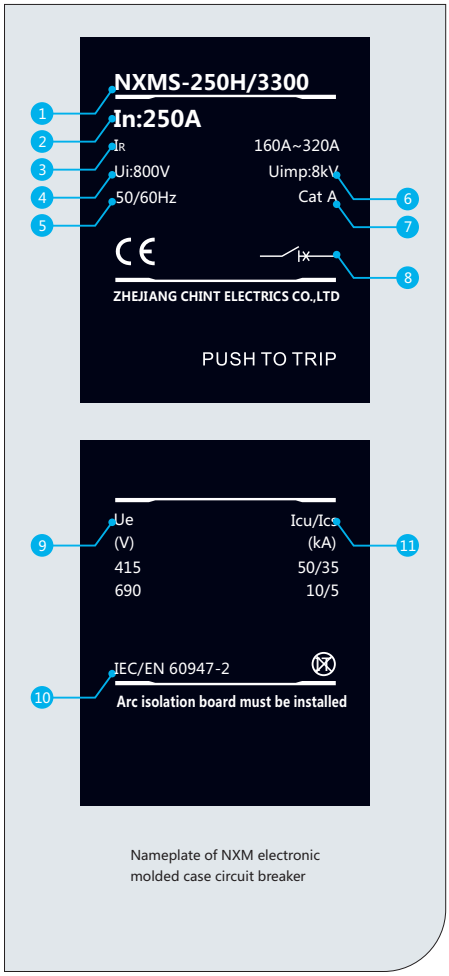
Breaker

The moulded case circuit breaker will provide protection for the circuit and equipment in case of overload, short circuit and under voltage condition occurred in the power distribution circuit. Besides, it can also provide protection of overload, short circuit and under voltage for the non-frequent start of motor.

- Frame size:
  NXM series moulded case circuit breaker: 63A, 125A, 160A, 250A, 400A, 630A, 800A, 1000A, 1250A, 1600A
  NXMS series electronic breaker: 160A, 250A, 400A, 630A, 1000A, 1250A, 1600A
- Rated operational voltage: Ue (VAC): 220/230/240, 380/400/415, 690
- Breaking capacity code: E, S, F, H
- Number of poles: 2P, 3P, 4P
- Release type:thermal magnetic fixed type; magnetic fixed type; electronic type.
- Installation method: Fixed type; plug-in type

Nameplate interpretation

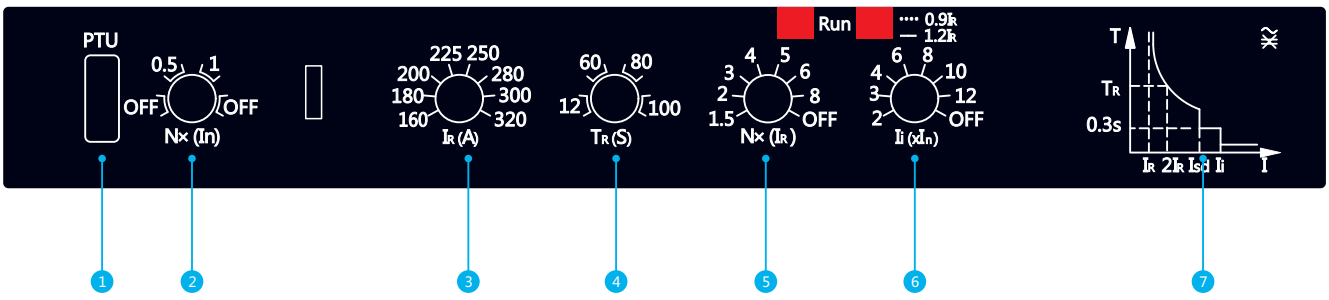
1. Product type: Frame size; breaking capacity; poles number
2. In: Rated operational current
3. Ui: Rated insulation voltage
4. Frequency of A.C.
5. Ii: 10In: Multiple of current of transient behavior
6. Uimp: Rated impulsive withstand voltage
7. Cat A: Utilization category of breaker
8. +40℃: Ambient temperature
9. Electrical symbol for circuit breaker with isolating function
10. Ue: Rated operational voltage
11. The product is in conformity with standard IEC/EN 60947.2
12. Icu/Ics: Ultimate short circuit breaking capacity/Service short circuit breaking capacity



Nameplate of NXM electronic molded case circuit breaker

1. Product type: Frame size; breaking capacity; poles number
2. In: Rated operational current
3. I_R: Long-time-delay setting current range
4. Ui: Rated insulation voltage
5. Frequency of A.C.
6. Uimp: Rated impulsive withstand voltage
7. Cat A: Utilization category of breaker
8. Electrical symbol for circuit breaker with isolating function
9. Ue: Rated operational voltage
10. The product is in conformity with standard IEC/EN 60947.2
11. Icu/Ics: Ultimate short circuit breaking capacity/Service short circuit breaking capacity

Electronic release



1. PTU interface
2. Neutral pole protection current setting, with 2 steps of current that is adjustable and can be turned off (OFF)
3. Rated current setting with 8 steps
4. Long-time-delay (S) setting with 4 steps
5. Short-time-delay current Isd setting with 7 steps that is adjustable and can be turned off (OFF)
6. Instantaneous action current Ii setting with 7 steps and that can be turned off (OFF)
7. Current-time protection curve

Overview

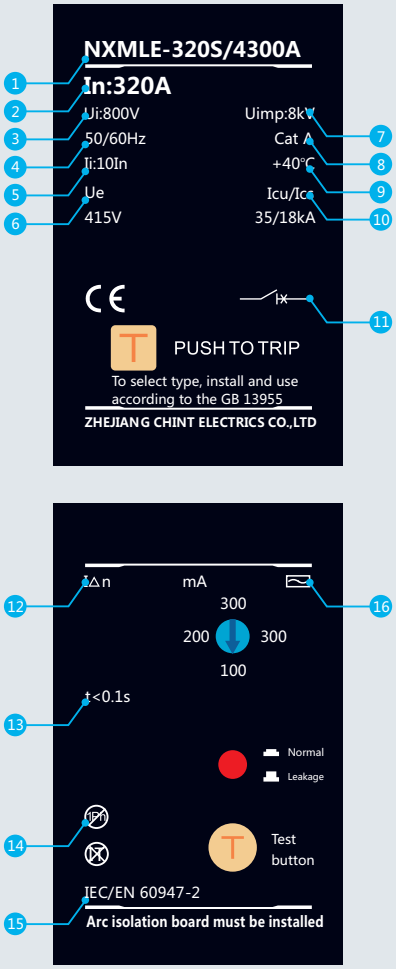
NXMLE-320S/4300A

NXMLE series residual current circuit breaker

Residual current operated protection breaker

Residual current circuit breakers are used mainly to provide protection against leakage current which may cause insulation failure , electric shock to equipment and human body irrespectively along with the standard protection against over load & short circuit condition.

- Frame size: 125A, 160A, 250A, 400A, 630A
- Rated operational voltage: Ue(V AC): 220/230/240, 380/400/415
- Breaking capacity code: S, F, H
- Number of poles: 1PN, 2P, 3P, 3PN, 4P
- Installation method: fixed type; plug-in type

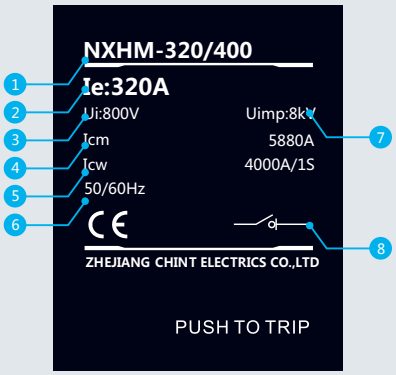


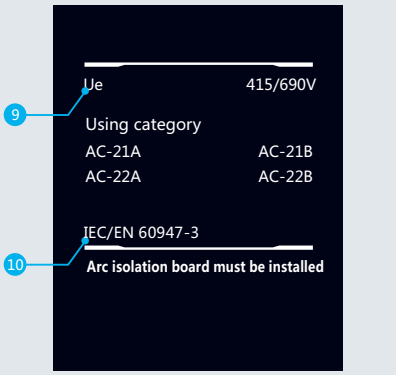
Nameplate of NXMLE residual current circuit breaker

Nameplate interpretation

1. Product type: Frame size, breaking capacity, poles number
2. In: Rated operational current
3. Ui: Rated insulation voltage
4. Frequency of A.C.
5. Ii: 10In: Multiple of current of transient behavior
6. Ue: Rated operational voltage
7. Uimp: Rated impulsive withstand voltage
8. Cat A: Utilization category of breaker
9. +40℃: Ambient temperature
10. Icu/Ics: Rated ultimate breaking capacity / Rated service breaking capacity
11. Electrical symbol for circuit breaker with isolating function
12. Rated residual operating current value
13. t: Maximum breaking time
14. Only applicable for three-phase power
15. The product is in conformity with standard IEC/EN 60947.2
16. Leakage current selection (mA)

NXHM-320/400





Nameplate of NXHM disconnector switch

NXHM series disconnector switch

Disconnector switch

The disconnector switch series are mainly used for non-frequent circuit making or breaking circuit in the distribution network.

- Frame size: 63A, 125A, 160A, 250A, 320A, 400A, 630A, 800A, 1000A
- Rated operational voltage: Ue(VAC): 380/400/415/690
- Number of poles: 3P, 4P
- Installation method: fixed type; plug-in type

Installation method: stationary type and plug-in type

1. Product type: Frame size; poles number
2. Ie: Rated operational current
3. Ui: Rated insulation voltage
4. Icm: Rated short-time making capacity
5. Icw: Rated short-time withstand current
6. Frequency of A.C.
7. Uimp: Rated impulsive withstand voltage
8. Disconnector Function as per IEC/EN
9. Ue: Rated operational voltage
10. The product is in conformity with standard IEC/EN 60947.3

Overview

Compliant with standard

- Product standard

  IEC 60947-1(General rules)

  IEC 60947-2(Breaker)

  IEC 60947-3(switch, disconnector)

  IEC 60947-4(motor, drive)

- Use standard in extreme environment

  IEC 60068-2-1(low temperature)

  IEC 60068-2-2(dry heat)

  IEC 60068-2-11(salt mist)

  IEC 60068-2-30(damp and hot)

Anti-humid heat capacity

The product has passed the environmental test of dry cold, dry heat, and wet heat and the like. It can operate reliably under extreme environmental conditions.

Environment temperature

It must calculate according to the temperature compensation coefficient table provided in the sample in the event the temperature is lower than -5℃ or higher than 40℃.

Altitude and pollution degree

The installation altitude of normal operation is 2000 m and below. In case of higher than 2000m, it must consider the decrease of dielectric strength and colder air. The amendment action shall be implemented according to the altitude derating factor table provided in the sample.

The product can operate reliably in pollution degree Ⅲ environment defined in IEC 60947-1and 60664-1(industrial environment).

Protection grade

The product is in conformity with the standard requirements of IEC 60529 (enclosure protection grade).
Product body: protection grade is IP30 (except the wiring terminal position)

● Installation of cabinet door
Equipped with toggle handle: the protection grade is IP40
Equipped with rotation handle: the protection grade is IP50
Equipped with motor-driven mechanism: the protection grade is IP40

Product selection

NXM series moulded case circuit breaker

Model definition and description

NXM	-	160	S	P	/	4	300	
Product code		Frame size code	Breaking capacity code[2]	Operation way code		Number of poles code	Code of release type and inner accessories[3]	
NXM: moulded case circuit breaker		63A 125A 160A 250A 400A 630A 800A 1000A 1250A 1600A	E: 15kA S: 25kA F: 36kA H: 50kA E: 20kA S: 36kA F: 36kA H: 50kA E: 36kA S: 50kA F: 50kA H: 70kA S: 50kA F: 50kA H: 70kA S: 50kA H: 70kA	No code: direct handle operation P: motor operation Z: rotary handle operation		2: 2 poles 3: 3 poles 4: 4 poles	First number represents the release type 2: only magnetic type 3: thermal magnetic type The second number and the third number are codes of inner accessories	

Model selection examples:

NXM-160S P/4300 2 A G 100 R: To order one moulded case circuit breaker with 160A frame size, 35kA breaking capacity, thermal adjustable and magnetic fixed release, with motor-driven mechanism, 4 poles, with no inner accessories, motor protection, the category of four poles is A, with overload alarm non-tripping function. The rated current is 100A and rear connection.

Note: [1] The rated current of each frame can be seen in table 1.

[2] The corresponding poles number and breaking capacity related to frame size can be seen in table 2.

[3] For tripping method and inner accessories, see page 17-20 .

Comparison table of frame sizes and rated current

Rated current (A)		10	16	20	25	30	32	40	50	60	63	70	75	80	100	125	140	150	160	170	180	200	225	250	280
Frame size (A)	63	■	■	■	■	■	■	■	■	■	■														
	125	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■									
	160						■	■	■	■	■	■	■	■	■	■	■	■	■						
	250																		■	■	■	■	■	■	
	400																								
	630																								
	800																								
	1000																								
	1250																								
	1600																								

Comparison table of frame sizes, number of poles and breaking capacity

Frame size (A)		63			125			160			250		
Number of poles		2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
Code of breaking capacity	E	■	■	■	■	■	■	■	■	■	■	■	■
	S	■	■	■	■	■	■	■	■	■	■	■	■
	F	-	■	■	-	■	■	-	■	■	-	■	■
	H	-	■	■	-	■	■	-	■	■	-	■	■

	2	A	100	R
	Usage code	Product with N pole the code is selectable	Rated current[1)]	Code of installation
	No code: distribution protection 2: motor protection	A: there is no over current release installed at pole N and the N pole will always connect, which will not operate with the other three poles. B: there is no over current release installed at pole N and the N pole will operate with the other three poles; C: there is over current release installed at N pole, and the N pole will operate with the other three poles; D: there is over current release installed at N pole, and the N pole will always connects, which will operate with the other three poles	10A~1600A	No code: front connection R: rear connection DR: plug-in type rear connection

Table 1

	225	250	280	300	315	320	350	400	450	500	600	630	700	800	900	1000	1250	1600
	■	■																
		■	■	■	■	■	■	■										
								■	■	■	■	■						
												■	■	■				
														■	■	■		
																■	■	
																■	■	■

Table 2

	400			630			800			1000			1250			1600		
	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
	-	■	■	-	■	■	-	-	-	-	-	-	-	-	-	-	-	-
	-	■	■	-	■	■	-	■	■	-	■	■	-	■	■	-	■	■
	-	■	■	-	■	■	-	■	■	-	-	-	-	-	-	-	-	-
	-	■	■	-	■	■	-	■	■	-	■	■	-	■	■	-	■	■

Product selection

NXMS series electronic moulded case circuit breaker

Description

NXMS	-	160	H	P	/	3	
Product code		Frame size code	Breaking capacity code[2]	Operation code		Number of poles code[2]	
NXMS series electronic moulded case circuit breaker		160A 250A 400A 630A 1000A 1250A 1600A	F: 36kA H: 50kA S: 50kA F: 50kA H: 70kA S: 50kA H: 70kA S: 50kA H: 70kA	No code: direct handle operation P: motor operation Z: rotary handle operation		3: 3 poles 4: 4 poles[4]	

Model selection examples:

NXMS-160H P/3300 2 T 125R: To order one electronic moulded case circuit breaker with frame size 160 , 50kA breaking capacity, with motor-driven mechanism, 3 poles, with no inner accessories, electronic release type, motor protection, with communication module.

The rated current is 125A and the installation method is rear connection.

Note: [1] The rated current of each frame can be seen in table 3.

[2] The corresponding poles number and breaking capacity related to each frame size can be seen in table 4.

[3] For tripping method and inner accessories, see page 21-22.

[4] The type of neutral pole (N pole) is: there is over current release installed at N pole and N pole will operate with the other three poles together (N pole will connect at first and then disconnect).

Comparison table frame size and rated current

Table 3

Rated current(A)		32	63	125	160	250	400	630	800	1000	1250	1600
Frame size(A)	160	■	■	■	■							
	250					■						
	400						■					
	630							■				
	1000								■	■		
	1250										■	
	1600											■

Comparison table of frame size, number of poles and breaking capacity

Table 4

Frame size(A)		160		250		400		630		1000		1250		1600	
Number of poles		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
Code of breaking capacity	S	-	-	-	-	■	■	■	■	■	■	■	■	■	■
	F	■	■	■	■	■	■	■	■	-	-	-	-	-	-
	H	■	■	■	■	■	■	■	■	■	■	■	■	■	■

	300	2	T	125	R
	Releasing method and code of inner accessories	Usage code	Communication module code	Rated current[1)]	Code of installation
	First number represents the release type. 3: The second number and the third number are code of inner accessories	No code: distribution protection 2: motor protection	No code: no communication module T: with communication module	32A~1600A	No code: front connection R: rear connection DR: plug-in type of rear connection

Product selection

NXMLE series residual current circuit breaker

Description

NXMLE	-	125	H	P	/	3	300	2	
Product code		Frame size code	Breaking capacity code[2]	Code of operation mode		Code of poles number	Releasing method and code of inner accessories[3]	Usage code	
NXMLE: residual current circuit breaker		125A 160A 250A 400A 630A	S: 25kA F: 18kA H: 36kA S: 35kA H: 50kA S: 50kA H: 75kA	No code: direct handle operation P: motor operation Z: rotary handle operation		1PN 2P 3P 3PN 4P	First number represents the release type. only magnetic type 2: type6) 3: thermal magnetic type The second number and the third number are codes of accessories	No code distribution protection 2:motor protection	

Model selection examples:
NXMLE-125H P/4300 2 A 100 J A Y R: To order one residual current circuit breaker with 125A frame size, 35kA breaking capacity, with motor-driven mechanism, 3 poles , thermal magnetic fixed type release, with no inner accessories, motor protection, the code of N pole is A.
The rated current is 100A with electric leakage alarm non-trip function, and the residual current value is A (30/50/100). It is delay type and rear connection.

Comparison table of frame size and rated current

Rated current (A)		10	16	20	25	32	40	50	63	80	100	125	160	180
Frame size (A)	125	■	■	■	■	■	■	■	■	■	■	■		
	160											■	■	
	250												■	■
	400													
	630													

Comparison table of frame size, poles number and breaking capacity

Frame size (A)		125			160			250		
Number of poles		1PN/2P	3P	3PN/4P	1PN/2P	3P	3PN/4P	1PN/2P	3P	3PN/4P
Code of breaking capacity	S	■	■	■	■	■	■	■	■	■
	F	-	■	■	-	■	■	-	■	■
	H	-	■	■	-	■	■	-	■	■

Comparison table of frame size and residual current value and code

Frame size (A)		125	160	250
Fixed single grade, non-delay type	Residual current value and code (mA)	30/50/100/200/300/500	30/50/100/200/300/500	30/50/100/200/300/500
Adjustable 3 grades, non-delay type		A: 30/50/100	A: 30/50/100	A: 30/50/100
		B: 50/100/200	B: 50/100/200	B: 50/100/200
		C: 100/200/300	C: 100/200/300	C: 100/200/300
		D: 200/300/500	D: 200/300/500	D: 200/300/500
Fixed single grade, delay type		50/100/200/300/500	50/100/200/300/500	50/100/200/300/500
Adjustable 3 grades, delay type		B: 50/100/200	B: 50/100/200	B: 50/100/200
		C: 100/200/300	C: 100/200/300	C: 100/200/300
		D: 200/300/500	D: 200/300/500	D: 200/300/500
		-	-	-

Comparison table of frame size and maximum opening time

Frame size (A)	125	160	250
Non-delay type (s)	≤0.1	≤0.1	≤0.1
Delay type Y (s)	0.3/0.4/0.5	0.3/0.4/0.5	0.3/0.4/0.5

	A	Y	J	A	100	R
	Product with N pole, selectable code	Openning time[5]	Code of residual current alarm function	Code of residual current value[4]	Rated current[1]	Code of installation
	A: there is no over current release installed at N pole and the N pole will always connect, which will not operate with the other three poles. B: there is no over current release installed at N pole and the N pole will operate with the other three poles;	No code: no time delay type Y: time delay type	No code Without residual current alarm with non-trip function J: Residual current alarm with non-trip function Q: Residual current start and stop function	A B C D E	10A~800A	No code: front connection R: rear connection DR: plug-in type with rear connection

Note : [1] See table 5 for rated current included in each frame size

[2] See table 6 for corresponding poles, breaking capacity.

[3] See page 23-24 for release type and inner accessories.

[4] As for the un-adjustable type, mark the residual current value directly; for the adjustable type, mark the code.

[5] See table 8 for opening time.

Table 5

	200	225	250	315	350	400	500	630
	■	■	■					
			■	■	■	■		
						■	■	■

Table 6

	400			630	
	3P	3PN/4P	3PN/4P	3P	3PN/4P
	■	■	■	■	■
	■	■	■	■	■
	■	■	■	■	■

Table 7

	400	630
	50/100/200/300/500/1000	50/100/200/300/500/1000
	B: 50/100/200	B: 50/100/200
	C: 100/200/300	C: 100/200/300
	D: 200/300/500	D: 200/300/500
	E: 300/500/1000	E: 300/500/1000
	50/100/200/300/500/1000	50/100/200/300/500/1000
	B: 50/100/200	B: 50/100/200
	C: 100/200/300	C: 100/200/300
	D: 200/300/500	D: 200/300/500
	E: 300/500/1000	E: 300/500/1000

Table 8

	400	630
	≤0.1	≤0.1
	0.3/0.4/0.5	0.3/0.4/0.5

Product selection

NXHM series switch disconnector

Description

NXHM	-	63	P	/	3	00
Product code		Frame size code	Code of operation way		Number of poles code	Code of inner accessories[1)]
NXHM: switch disconnector		63A 125A 160A 250A 320A 400A 630A 800A 1000A	No code: direct handle operation P: motor operation Z: rotary handle operation		3: 3 poles 4: 4 poles	Code of inner accessories

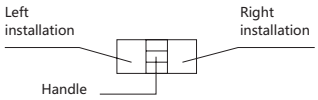
Model selection examples:
NXHM-63 P/300 : To order one disconnector switch with 63A frame size, with motor-driven mechanism, 3 poles, with no inner accessories rear connection.
Note: [1)] See page 25-26 of product sample for inner accessories code. The number code "00" can be omitted in case of no inner accessories.

Note

Code of inner accessories

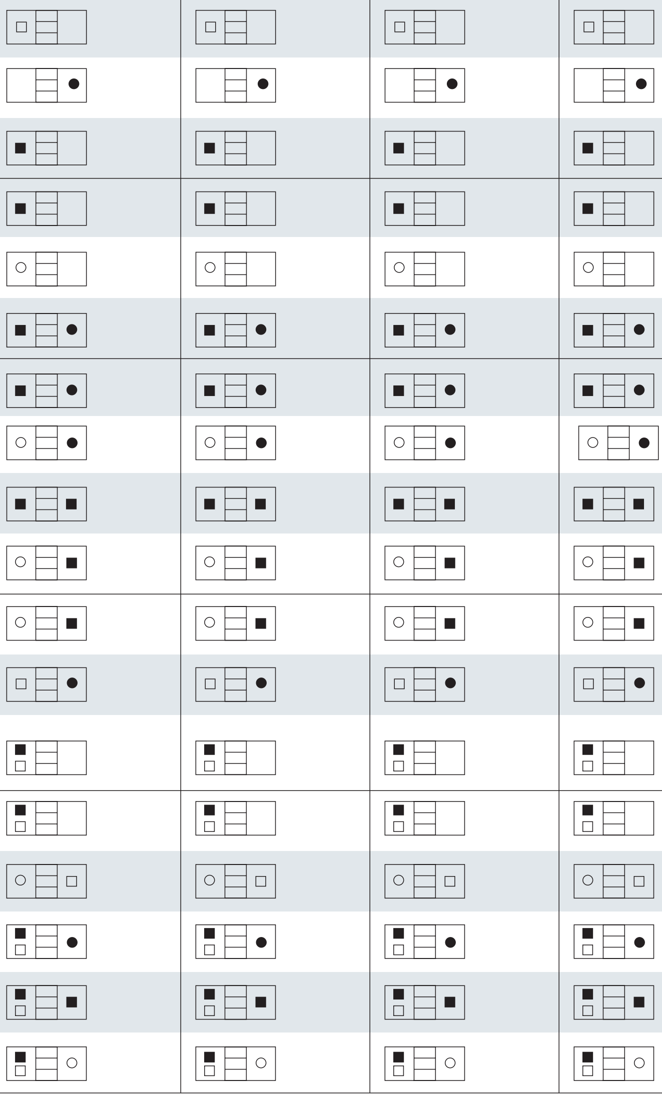
NXM series moulded case circuit breaker,code of inner accessories

☐ Alarm contact, ■ Auxiliary contact, ● Shunt release, ○ Under voltage release.



Accessories name	Accessories code		NXM-63E/S NXM-125E/S		NXM-63F/H NXM-125F/H	
	Only magnetic	Thermal magnetic release	3P	4P	3P	4P
No inner accessories	200	300				
Alarm contact	208	308				
Shunt release	210	310				
Auxiliary contact (1NO1NC)	220	320				
Auxiliary contact (2NO2NC)						
Under voltage release	230	330				
Shunt release, auxiliary contact (1NO1NC)	240	340				
Shunt release, auxiliary contact (2NO2NC)						
Under voltage release, shunt release	250	350				
Two groups of auxiliary contact (2NO2NC)	260	360				
Under voltage release, auxiliary contact (1NO1NC)	270	370				
Under voltage release, auxiliary contact (2NO2NC)						
Shunt release, alarm contact	218	318				
Auxiliary contact (1NO1NC),alarm contact	228	328				
Auxiliary contact (2NO2NC), alarm contact						
Under voltage release, alarm contact	238	338				
Shunt release, auxiliary contact (1NO1NC), alarm contact	248	348				
Two groups of auxiliary contact (2NO2NC), alarm contact	268	368				
Under voltage release, auxiliary contact (1NO1NC), alarm contact	278	378				

	NXM-160E/S		NXM-160F/H	
	3P	4P	3P	4P

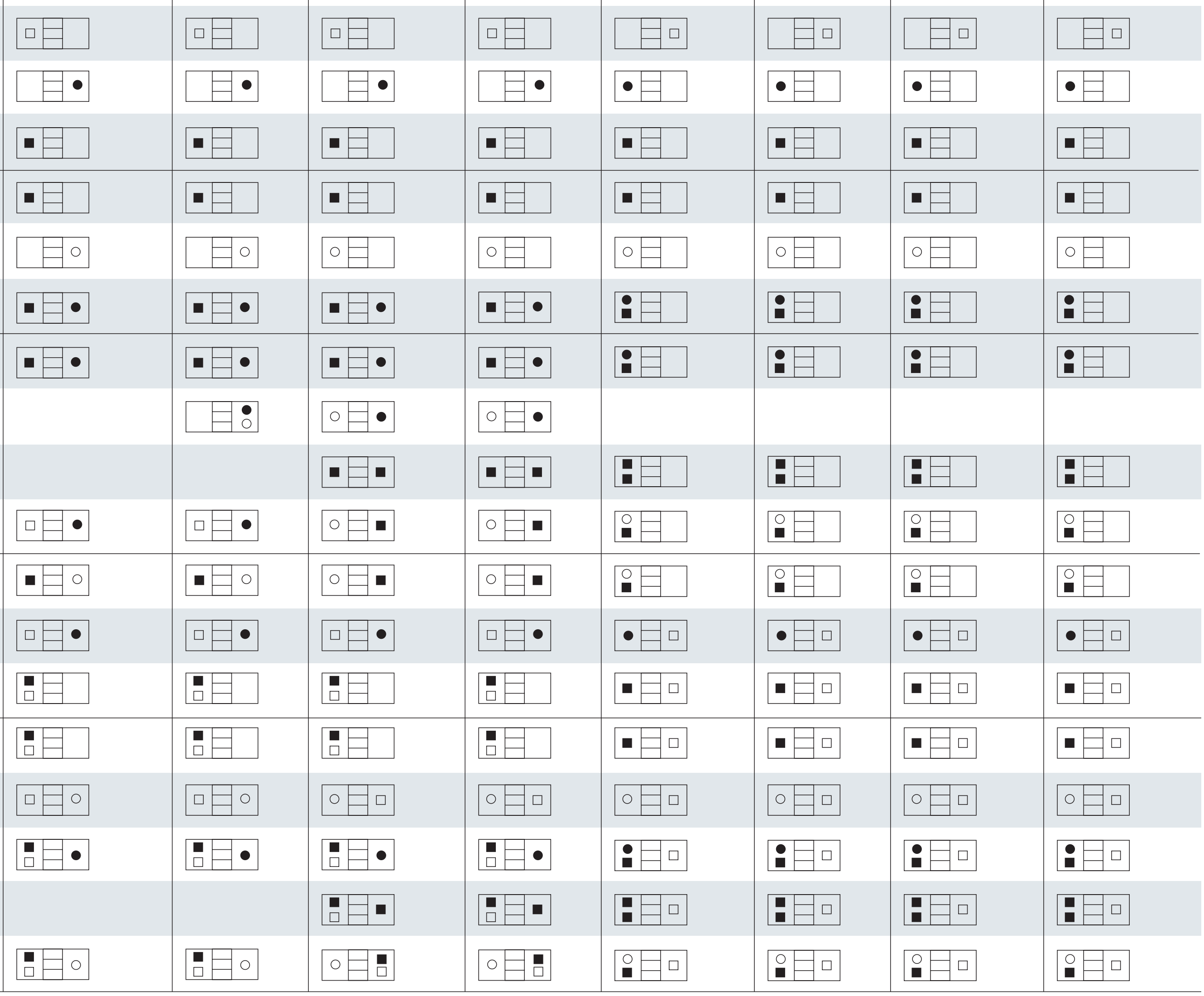


Code of inner accessories

(Continued from the table above)

Accessories name	Accessories code		NXM-250E/S		NXM-250F/H	
	Only magnetic	Thermal magnetic release	3P	4P	3P	4P
No inner accessories	200	300				
Alarm contact	208	308				
Shunt release	210	310				
Auxiliary contact (1NO1NC)	220	320				
Auxiliary contact (2NO2NC)						
Under voltage release	230	330				
Shunt release, auxiliary contact (1NO1NC)	240	340				
Shunt release, auxiliary contact (2NO2NC)						
Under voltage release, shunt release	250	350				
Two groups of auxiliary contact (2NO2NC)	260	360				
Under voltage release, auxiliary contact (1NO1NC)	270	370				
Under voltage release, auxiliary contact (2NO2NC)						
Shunt release, alarm contact	218	318				
Auxiliary contact (1NO1NC), alarm contact	228	328				
Auxiliary contact (2NO2NC), alarm contact						
Under voltage release, alarm contact	238	338				
Shunt release, auxiliary contact (1NO1NC), alarm contact	248	348				
Two groups of auxiliary contact (2NO2NC), alarm contact	268	368				
Under voltage release, auxiliary contact (1NO1NC), alarm contact	278	378				

	NXM-400E/S/F/H NXM-630E/S/F/H		NXM-800S/F/H NXM-1000S/H		NXM-1250S/H		NXM-1600S/H	
	3P	4P	3P	4P	3P	4P	3P	4P

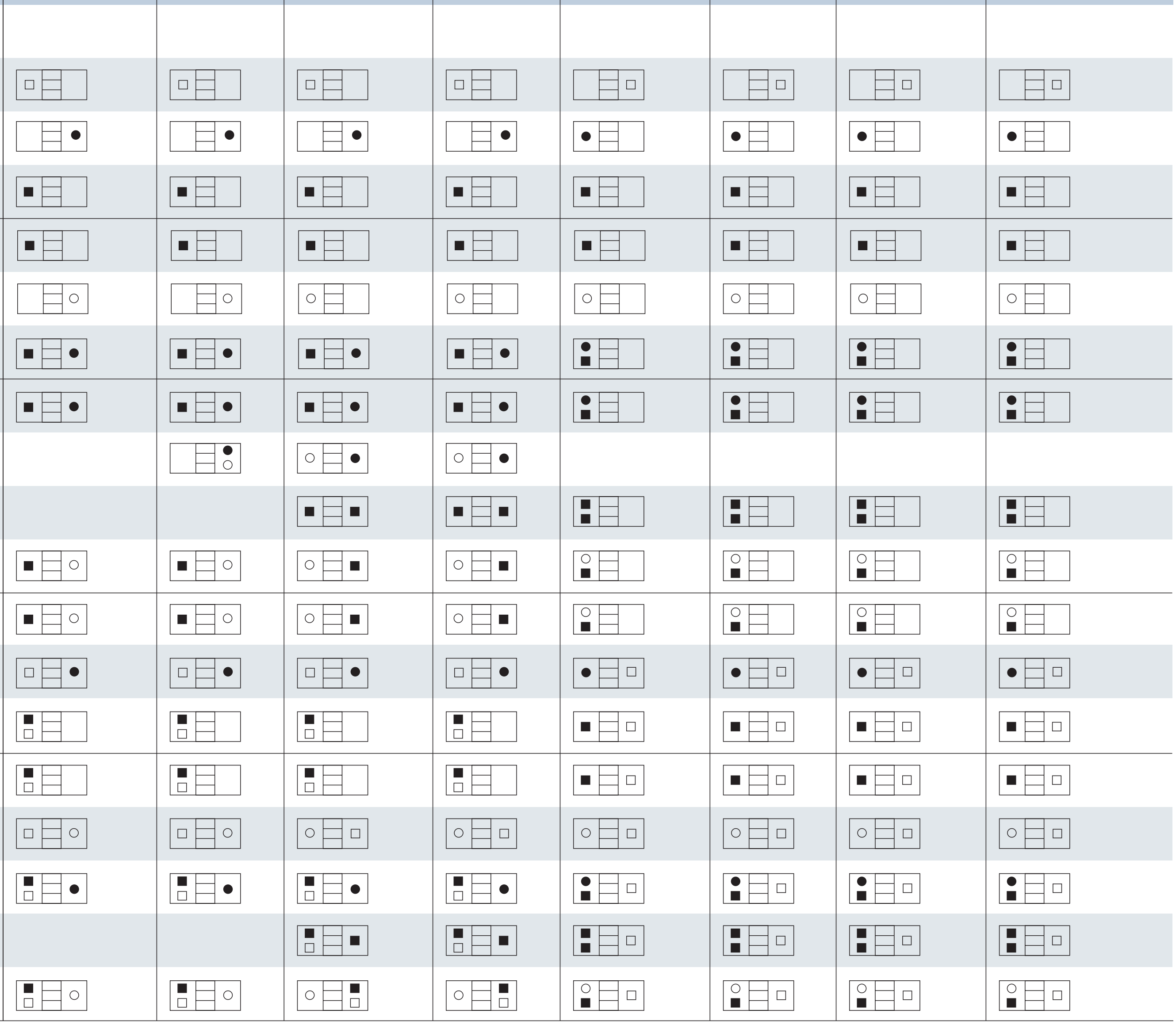


Code of inner accessories

NXMS series electronic moulded case circuit breaker, code of inner accessories

Accessories name	Accessories code		NXMS-160F/H		NXMS-250F/H	
	Only magnetic	Thermal magnetic release	3P	4P	3P	4P
No inner accessories	200	300				
Alarm contact	208	308				
Shunt release	210	310				
Auxiliary contact (1NO1NC)	220	320				
Auxiliary contact (2NO2NC)						
Under voltage release	230	330				
Shunt release, auxiliary contact (1NO1NC)	240	340				
Shunt release, auxiliary contact (2NO2NC)						
Under voltage release shunt release	250	350				
Two groups of auxiliary contact (2NO2NC)	260	360				
Under voltage release, auxiliary contact (1NO1NC)	270	370				
Under voltage release, auxiliary contact (2NO2NC)						
Shunt release, alarm contact	218	318				
Auxiliary contact (1 NO1NC), alarm contact	228	328				
Auxiliary contact (2 NO2NC), alarm contact						
Under voltage release, alarm contact	238	338				
Shunt release, auxiliary contact (1NO1NC), alarm contact	248	348				
Two groups of auxiliary contact (2NO2NC), alarm contact	268	368				
Under voltage release, auxiliary contact (1NO1NC), alarm contact	278	378				

	NXMS-400S/F/H NXMS-630S/F/H		NXMS-1000S/H		NXMS-1250S/H		NXMS-1600S/H	
	3P	4P	3P	4P	3P	4P	3P	4P



Code of inner accessories

NXMLE series residual current circuit breaker, code of inner accessories

Accessories name	Accessories code		NXMLE-125S/H		NXMLE-160S/F/H		
	Only magnetic	Thermal magnetic release	3P	3PN/4P	3P	3PN/4P	
No inner accessories	200	300					
Alarm contact	208	308					
Shunt release	210	310					
Auxiliary contact (1 NO1NC)	220	320					
Auxiliary contact (2 NO2NC)							
Under voltage release	230	330					
Shunt release, auxiliary contact (1NO1NC)	240	340					
Shunt release, auxiliary contact (2NO2NC)							
Under voltage release, shunt release	250	350					
Two groups of auxiliary contact (2NO2NC)	260	360					
Under voltage release, auxiliary contact (1NO1NC)	270	370					
Under voltage release, auxiliary contact (2NO2NC)							
Shunt release, alarm contact	218	318					
Auxiliary contact (1 NO1NC), alarm contact	228	328					
Auxiliary contact (2 NO2NC), alarm contact							
Under voltage release, alarm contact	238	338					
Shunt release, auxiliary contact (1NO1NC), alarm contact	248	348					
Two groups of auxiliary contact (2NO2NC), alarm contact	268	368					
Under voltage release, auxiliary contact (1NO1NC), alarm contact	278	378					

Code of inner accessories

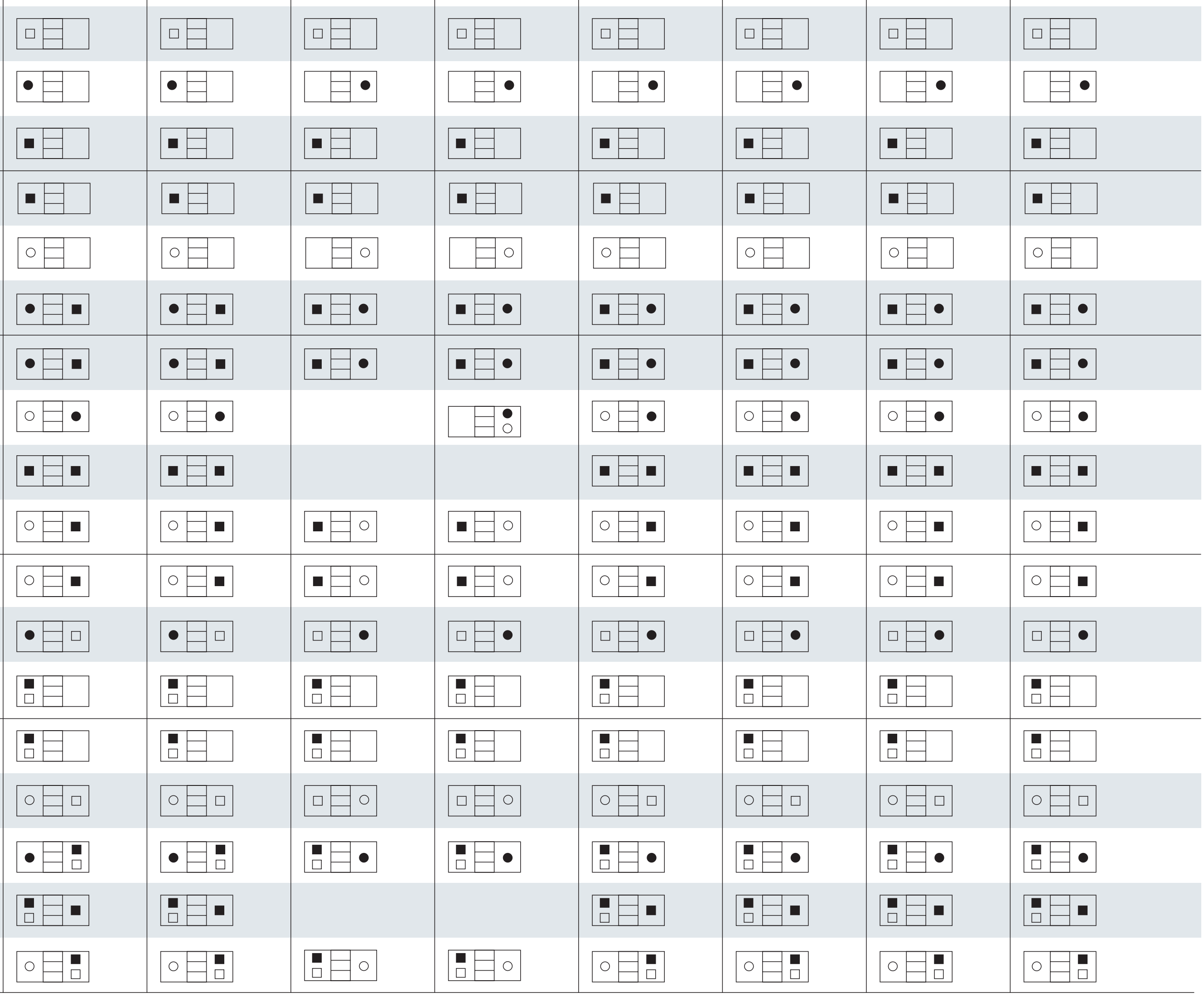
	NXMLE-250S/F/H		NXMLE-400S/F/H NXMLE-630S/F/H	
	3P	3PN/4P	3P	3PN/4P
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				
				

Code of inner accessories

NXHM series disconnector switch, code of inner accessories

Accessories name	Accessories code	NXHM-63 NXHM-125		NXHM-160		
		3P	4P	3P	4P	
No inner accessories	00					
Alarm contact	08					
Shunt release	10					
Auxiliary contact (1NO1NC)	20					
Auxiliary contact (2NO2NC)						
Under voltage release	30					
Shunt release, auxiliary contact (1NO1NC)	40					
Shunt release, auxiliary contact (2NO2NC)						
Under voltage release, shunt release	50					
Two groups of auxiliary contact (2NO2NC)	60					
Under voltage release, auxiliary contact (1NO1NC)	70					
Under voltage release, auxiliary contact (2NO2NC)						
Shunt release, alarm contact	18					
Auxiliary contact (1NO1NC), alarm contact	28					
Auxiliary contact (2NO2NC), alarm contact						
Under voltage release, alarm contact	38					
Shunt release, auxiliary contact (1NO1NC), alarm contact	48					
Two groups of auxiliary contact (2NO2NC), alarm contact	68					
Under voltage release, auxiliary contact (1NO1NC), alarm contact	78					

	NXHM-250 NXHM-320		NXHM-400 NXHM-630		NXHM-800		NXHM-1000	
	3P	4P	3P	4P	3P	4P	3P	4P



Functions and features

Technical parameters

NXM series moulded case circuit breaker

Frame Size, rated current Inm (A)			63				125				160				250			
Rated current In (A), 40℃, 55℃			10,16,20,25,30, 32,40,50,60,63				10,16,20,25,30,32, 40,50,60,63,70,75, 80,100,125				32,40,50,60,63,70,75,80, 100,125,140,150,160				160,170,180,200,225,250			
Rated insulation voltage Ui(V)			800				800				800				800			
Rated impulse withstand voltage Uimp(kV)			8				8				8				8			
Rated operational voltage Ue(V), AC50/60Hz			220/230/240, 380/400/415/500				220/230/240, 380/400/415/500				220/230/240, 380/400/415				220/230/240, 380/400/415			
Breaking capacity code			E	S	F	H	E	S	F	H	E	S	F	H	E	S	F	H
Number of poles		2P	■	■	-	-	■	■	-	-	■	■	-	-	■	■	-	-
		3P	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
		4P	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Rated ultimate short circuit breaking capacity Icu (kA)		AC220/230/240V	18	36	50	75	18	36	50	75	40	50	50	75	40	50	50	75
		AC380/400/415V	15	25	36	50	15	25	36	50	20	36	36	50	20	36	36	50
		AC500V	-	-	15	25	-	-	-	-	-	-	-	-	-	-	-	-
Rated service short circuit breaking capacity Ics (kA)		AC220/230/240V	18	18	50	50	18	18	50	50	30	30	50	50	30	30	50	50
		AC380/400/415V	15	15	36	36	15	15	36	36	20	20	36	36	20	20	36	36
		AC500V	-	-	15	25	-	-	-	-	-	-	-	-	-	-	-	-
In conformity with standards			IEC 60947-2															
Utilization category			A				A				A				A			
Isolation function			■				■				■				■			
Ambient temperature			-35℃~70℃															
Arcing distance			⩽50				⩽50				⩽50				⩽50			
Mechanical life (times)		Without maintenance	20000				20000				20000				20000			
		With maintenance	40000				40000				40000				40000			
Electricallife (times)		AC415V, In	10000				10000				10000				10000			
Release type and protection type	Magnetic release	Distribution protection	■	■			■	■			■	■			■	■		
		Motor protection	■	■			■	■			■	■			■	■		
	Thermal magnetic release	Distribution protection	■	■			■	■			■	■			■	■		
		Motor protection	■	■			■	■			■	■			■	■		
Accessories	Auxiliary contact		■	■			■	■			■	■			■	■		
	Alarm contact		■	■			■	■			■	■			■	■		
	Auxiliary contact, alarm contact		■	■			■	■			■	■			■	■		
	Shunt release		■	■			■	■			■	■			■	■		
	Under voltage release		■	■			■	■			■	■			■	■		
	Manual operational mechanism		■	■			■	■			■	■			■	■		
	Motor-driven mechanism		■	■			■	■			■	■			■	■		
	Rear connection		■	■			■	■			■	■			■	■		
	Plug-in type		■	■			■	■			■	■			■	■		
	Extending terminal bonding bar		■	■			■	■			■	■			■	■		
Derivative product	For special use of prepaid ammeter		■	-			■	-			■	-			■	-		
	Overload alarm non-trip		-	-			-	-			■	■			■	■		
Dimension and size(mm) Width (w) X height (H)X depth(D)		Width (2P/3P/4P)	56/78/103				56/78/103				63/90/120				78/105/140			
		Height	130				130				155				165			
		Depth (E/S/F/H type)	70.5/70.5/80.5/80.5				70.5/70.5/80.5/80.5				75/75/90.5/90.5				76.5/76.5/101.5/101.5			

	400				630				800			1000		1250		1600	
	250,280,300,315,320,350,400				400,450,500,600,630				630, 700, 800			800,900,1000		1000, 1250		1000, 1250,1600	
	1000				1000				1000			1000		1000		1000	
	12				12				12			12		12		12	
	220/230/240, 380/400/415				220/230/240, 380/400/415				220/230/240, 380/400/415			220/230/240, 380/400/415		220/230/240, 380/400/415		220/230/240, 380/400/415	
	E	S	F	H	E	S	F	H	S	F	H	S	H	S	H	S	H
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	50	75	75	100	50	75	75	100	75	75	100	75	100	75	100	75	100
	36	50	50	70	36	50	50	70	50	50	70	50	70	50	70	50	70
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	50	50	75	75	50	50	75	75	50	75	75	50	75	50	75	50	75
	36	36	50	50	36	36	50	50	36	50	50	36	50	36	50	36	50
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	A				A				A			A		A		A	
	■				■				■			■		■		■	
	⩽100				⩽100				⩽100			⩽100		⩽100		⩽100	
	10000				10000				8000			5000		5000		5000	
	20000				20000				10000			10000		10000		10000	
	8000				8000				5000			2500		2500		2500	
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	■		■		■		■		■	■		■	■	-	-	-	-
	140/185				140/185				182/240			210/280		210/280		210/280	
	257				257				270			280		370		370	
	107.5/107.5/107.5/107.5				107.5/107.5/107.5/107.5				113/113/113			116/116		152/152		1600A:157;<1600A:152	

Functions and features

Technical parameters

NXMS series electronic moulded case circuit breaker

Frame size Inm(A)		160		250		400		
Rated current In(A),40℃,55℃		32、63、125、160		250		400		
Rated insulation voltage Ui(V)		800		800		1000		
Rated impulse withstand voltage Uimp(kV)		8		8		12		
Rated operational voltage Ue(V),AC 50/60Hz		220/230/240、380/400/415、690*		220/230/240、380/400/415、690*		220/230/240、380/400/415、690*		
Breaking capacity code		F	H	F	H	S	F	H
Number of poles	3P	■	■	■	■	■	■	■
	4P	■	■	■	■	■	■	■
Rated ultimate short circuit breaking capacity Icu(kA)	AC220/230/240	50	75	50	75	75	75	100
	AC380/400/415V	36	50	36	50	50	50	70
	AC690V	10	10	10	10	10	10	15
Rated service short circuit breaking capacity Ics(kA)	AC220/230/240	50	50	50	50	50	75	75
	AC380/400/415V	36	36	36	36	36	50	50
	AC690V	5	5	5	5	7.5	7.5	7.5
Rated shor-time withstand current Icw(kA),1s	AC400/415V	-		-		5		
In confromity with standard		IEC 60947-2				IEC 60947-2,GB 14048.2		
Utilization category		A		A		B		
Isolation function		■		■		■		
Ambient temperature		-25℃~+70℃				-25℃~+70℃		
Arcing distance		⩽50		⩽50		⩽100		
Mechanical life (times)	Without maintenance	20000		20000		10000		
	With maintenance	40000		40000		20000		
Electrical life (times)	AC415V,In	10000		10000		8000		
Electric release (times)	Distribution protection	■		■		■	■	
	Motor protection	■		■		■	■	
Accessories	Auxiliary contact	■		■		■	■	
	Alarm contact	■		■		■	■	
	Auxiliary contact, alarm contact	■		■		■	■	
	Shunt release	■		■		■	■	
	Under voltage release	■		■		■	■	
	Communication module	■		■		■	■	
	Maintenance tester	■		■		■	■	
	Setting and monitoring software	■		■		■	■	
	Remote indication contact	■		■		■	■	
	Manual operational mechanism	■		■		■	■	
	Motor-driven mechanism	■		■		■	■	
	Rear connection	■		■		■	■	
	Plug-in type	■		■		■	■	
	Extending terminal bonding bar	■		■		■	■	
	Temperature monitoring module	■		■		■	■	
	Interphase barrier	■		■		■	■	
Dimension and size (mm) Width x height x depth	Width (3P/4P)	90/120		105/140		140/185		
	Height	155		165		257		
	Depth (S/H type)	90.5/90.5		101.5		107.5/107.5		

*690V only has CE certification

	630			1000		1250		1600	
	630			800, 1000		1250		1600	
	1000			1000		1000		1000	
	12			12		12		12	
	220/230/240、380/400/415、690*			220/230/240、380/400/415、690*		220/230/240、380/400/415、690*		220/230/240、380/400/415、690*	
	S	F	H	S	H	S	H	S	H
	■	■	■	■	■	■	■	■	■
	■	■	■	■	■	■	■	■	■
	75	75	100	75	100	75	100	75	100
	50	50	70	50	70	50	70	50	70
	10	10	15	15	20	-	30	-	30
	50	75	75	50	75	50	75	50	75
	36	50	50	36	50	36	50	36	50
	7.5	7.5	7.5	12.5	15	-	20	-	20
	8			12		19.2		19.2	
	B			B		B		B	
	■			■		■		■	
	≤100			≤100		≤100		≤100	
	10000			5000		5000		5000	
	20000			10000		10000		10000	
	8000			2500		2500		2500	
	■	■		■	■	■	■	■	■
	■	■		–	–	–	–	–	–
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	■	■		■	■	–	–	–	–
	■	■		■	■	■	■	■	■
	–	–		■	■	■	■	■	■
	■	■		■	■	■	■	■	■
	140/185			210/280		210/280		210/280	
	257			280		370		370	
	107.5/107.5			116/116		152/152		157/157	

*690V only has CE certification

Functions and features

Technical parameters

NXMLE series residual current circuit breaker

Frame size Inm(A)		125			160			250		
Rated operational current In (A), 40℃		10,16,20,25,32,40,50, 63,80,100,125			125,160			160,180,200, 225,250		
Rated insulation voltage Ui(V)		800			800			800		
Rated impulse withstand voltage Uimp(kV)		8			8			8		
Rated operational voltage Ue(V), AC 50/60Hz		230/240,400/415			220/230/240,380/400/415			220/230/240,380/400/415		
Rated residual operating current IΔn(mA)	Fixed single grade, non-delay type	30/50/100/200/300/500			30/50/100/200/300/500			30/50/100/200/300/500		
	Fixed single grade, delay type	50/100/200/300/500			50/100/200/300/500			50/100/200/300/500		
	Adjustable three grades, non-delay type	A: 30/50/100			A: 30/50/100			A: 30/50/100		
		B: 50/100/200			B: 50/100/200			B: 50/100/200		
		C: 100/200/300			C: 100/200/300			C: 100/200/300		
		D: 200/300/500			D: 200/300/500			D: 200/300/500		
	Adjustable three grades, non-delay type	B: 50/100/200			B: 50/100/200			B: 50/100/200		
		C: 100/200/300			C: 100/200/300			C: 100/200/300		
		D: 200/300/500			D: 200/300/500			D: 200/300/500		
		-			-			-		
Rated residual non-operating current IΔno(A)		0.5IΔn			0.5IΔn			0.5IΔn		
Non-delay type 5IΔn, maximum breaking time(s)		≤0.04			≤0.04			≤0.04		
Delayed adjustable 2IΔn limit non-actuating time (s)non-adjustable		0.1/0.2/0.3, optional			0.1/0.2/0.3, optional			0.1/0.2/0.3, optional		
Delayed adjustable 2IΔn maximum breaking time		0.3/0.4/0.5, optional			0.3/0.4/0.5, optional			0.3/0.4/0.5, optional		
Breaking capacity code		S	F	H	S	F	H	S	F	H
Number of poles	1PN	■	-	-	■	-	-	■	-	-
	2P	■	-	-	■	-	-	■	-	-
	3P	■	■	■	■	■	■	■	■	■
	3PN	■	■	■	■	■	■	■	■	■
	4P	■	■	■	■	■	■	■	■	■
Rated ultimate short circuit breaking capacity Icu(kA),	AC220/230/240	36	36	50	50	50	75	50	50	75
	AC380/400/415	25	18	36	35	25	50	35	25	50
Rated service short circuit breaking capacity Ics (kA)	AC220/230/240	18	36	36	30	50	50	30	50	50
	AC380/400/415	13	18	18	18	25	25	18	25	25
In conformity with standard		IEC 60947-2								
Utilization category		A			A			A		
Isolation function[1]		■			■			■		
Ambient temperature		-35℃~+70℃								
Arcing distance		≤50			≤50			≤100		
Mechanical life (times)	Without maintenance	20000			20000			10000		
	With maintenance	40000			40000			20000		
Electrical life (times)	AC415V,In	10000			10000			8000		
Accessories	Auxiliary contact (1open and 1closed)	■	■		■	■		■	■	
	Auxiliary contact (2open and 2closed)	-	-		■	■		■	■	
	Alarm contact	■	■		■	■		■	■	
	Auxiliary contact, alarm contact	■	■		■	■		■	■	
	Shunt release	■	■		■	■		■	■	
	Under voltage release	■	■		■	■		■	■	
	Residual current alarm with non-trip module	-	-		■	■		■	■	
	Manual operational mechanism	■	■		■	■		■	■	
	Motor-driven mechanism	■	■		■	■		■	■	
	Rear connection	■	■		■	■		■[2]	■[2]	
	Plug-in type	■	■		■	■		■	■	
	Extending terminal bonding bar	■	■		■	■		■	■	
	Interphase barrier	■	■		■	■		■	■	
Dimension and sizes(mm) width(W) x height(H) x depth(D)	Width (1PN/2P/3P/3PN/4P)	56/56/76/103/103			63/63/90/120/120			78/78/105/140		
	Height	150			160			170		
	Depth (S type and H type)	71/80			75/90.5			77/80		

Note: [1] 1PN/3PN has no isolation function.

	400			630		
	250,315,350,400			400,500,630		
	800			800		
	8			8		
	220/230/240,380/400/415			220/230/240,380/400/415		
	50/100/200/300/500/1000			50/100/200/300/500/1000		
	50/100/200/300/500/1000			50/100/200/300/500/1000		
	B: 50/100/200			B: 50/100/200		
	C: 100/200/300			C: 100/200/300		
	D: 200/300/500			D: 200/300/500		
	E: 300/500/1000			E: 300/500/1000		
	B: 50/100/200			B: 50/100/200		
	C: 100/200/300			C: 100/200/300		
	D: 200/300/500			D: 200/300/500		
	E: 300/500/1000			E: 300/500/1000		
	0.5IΔn			0.5IΔn		
	≤0.04			≤0.04		
	0.1/0.2/0.3, optional			0.1/0.2/0.3, optional		
	0.3/0.4/0.5, optional			0.3/0.4/0.5, optional		
	S	F	H	S	F	H
	-	-	-	-	-	-
	-	-	-	-	-	-
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	75	75	100	75	75	100
	50	36	70	50	36	70
	50	75	75	50	75	75
	25	36	36	25	36	36
	IEC 60947-2					
	A			A		
	■			■		
	-35℃~+70℃					
	≤100			≤100		
	10000			10000		
	20000			20000		
	8000			8000		
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	■	■		■	■	
	140/185			140/185		
	267			267		
	107.5/107.5			107.5/107.5		

Functions and features

Technical parameters

NXHM* series disconnector switch

Conventional thermal current Ith(A), 60℃			63	125	160
Rated current Ie (A)			63	125	160
Rated insulation voltage Ui (V)			800	800	800
Rated impulse withstand voltage Uimp (kV)			8	8	8
Rated operational voltage Ue (V),AC 50/60Hz			380/400/415/690	380/400/415/690	380/400/415/690
Number of poles			3P/4P	3P/4P	3P/4P
Rated short-time withstand current ICW (peak value A)AC 400/415V		1s	800	1500	2000
In conformity with standards		IEC 60947-3			
Utilization category			AC-22A/AC-23A	AC-22A/AC-23A	AC-21A(B)/AC-22A(B)
Ambient temperature	-35℃~70℃				
Arcing distance	≤50		≤50	≤50	≤50
Mechanical life (times)	Without maintenance		20000	20000	20000
	With maintenance		40000	40000	40000
Electrical life (times)	AC415V,In		10000	10000	10000
Accessories	Auxiliary contact		■	■	■
	Alarm contact		■	■	■
	Auxiliary contact, alarm contact		■	■	■
	Shunt release		■	■	■
	Under voltage release		■	■	■
	Manual operational mechanism		■	■	■
	Motor-driven mechanism		■	■	■
	Rear connection		■	■	■
	Plug-in		■	■	—
	Extending terminal bonding bar		■	■	■
	Interphase barrier		■	■	■
Dimension and sizes (mm Width(W) x height(H) x depth(D))	Width (3P//4P)		78/103	78/103	90/120
	Height		130	130	155
	Depth		70.5	70.5	75

*NXHM series product only has CE certification

	250	320	400	630	800	1000
	250	320	400	630	800	1000
	800	800	1000	1000	1000	1000
	8	8	12	12	12	12
	380/400/415/690	380/400/415/690	380/400/415/690	380/400/415/690	380/400/415/690	380/400/415/690
	3P/4P	3P/4P	3P/4P	3P/4P	3P/4P	3P/4P
	4000	4000	5000	7800	10000	12000
	IEC 60947-3					
	AC-21A(B)/AC-22A(B)	AC-21A(B)/AC-22A(B)	AC-21A(B)/AC-22A(B)	AC-21A(B)/AC-22A(B)	AC-21A(B)/AC-22A(B)	AC-21A(B)/AC-22A(B)
	-35℃~70℃					
	≤50	≤50	≤100	≤100	≤100	≤100
	20000	20000	10000	10000	8000	5000
	40000	40000	20000	20000	10000	10000
	10000	10000	8000	8000	5000	2500
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	■	■	■	■	■	■
	105/140	105/140	140/185	140/185	182/240	210/280
	165	165	257	257	270	280
	77	77	107.5	107.5	113	116

*NXHM series product only has CE certification

Protection feature

Distribution protection –Only magnetic release

Only magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	$10I_n$, ±20%	Instantaneous action
	125	10~125	Fixed	$10I_n$, ±20%	
	160	32~160	Fixed	$10I_n$, ±20%	
	250	125~250	Fixed	$10I_n$, ±20%	
	400	250~400	Fixed	$10I_n$, ±20%	
	630	400~630	Fixed	$10I_n$, ±20%	
	800	630~800	Fixed	$10I_n$, ±20%	
	1000	800~1000	Fixed	$10I_n$, ±20%	
	1250	1000~1250	Adjustable	I_i : (7-8-9-10) I_n	
	1600	1000~1600	Adjustable	I_i : (7-8-9-10) I_n	

	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of neutral pole protection current	Setting value of neutral pole short circuit protection current (A) and allowance	Release time
Neutral pole protection (code of N poles C/D)	63	10~63	Fixed	I_i, ±20%	Instantaneous action
	125	10~125	Fixed	I_i, ±20%	
	160	32~160	Fixed	I_i, ±20%	
	250	125~250	Fixed	I_i, ±20%	
	400	250~400	Fixed	I_i, ±20%	
	630	400~630	Fixed	I_i, ±20%	
	800	630~800	Fixed	I_i, ±20%	
	1000	800~1000	Fixed	I_i, ±20%	
	1250	1000~1250	Adjustable	I_i : (7-8-9-10) I_n	
	1600	1000~1600	Adjustable	I_i : (7-8-9-10) I_n	

Distribution protection—Thermal magnetic release

Thermal magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of overcurrent protection	Release feature
Overload protection	63A~1000A	10A~1000A	Fixed	I^2t=constant 1.05I_n(cold state), 2h non-trip(I_n>63A), 1h non-trip(I_n≤63A) 1.30I_n(heat state), 2h trip(I_n>63A), 1h trip(I_n≤63A)
	1600	1000A~1600A	Adjustable	I_R adjustable range: (0.7-0.8-0.9-1)In

Thermal magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	10I_n , ±20%	Instantaneous action
	125	10~125	Fixed	10I_n , ±20%	
	160	32~160	Fixed	10I_n , ±20%	
	250	125~250	Fixed	10I_n , ±20%	
	400	250~400	Fixed	10I_n , ±20%	
	630	400~630	Fixed	10I_n , ±20%	
	800	630~800	Fixed	10I_n , ±20%	
	1000	800~1000	Fixed	10I_n , ±20%	
	1250	1000~1250	Adjustable	I_i : (7-8-9-10) I_n	
	1600	1000~1600	Adjustable	I_i : (7-8-9-10) I_n	

	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of neutral pole protection current	Setting value of neutral pole overload protection current(A)setting value neutral pole short circuit protection current(A)
Neutral pole protection (code of N pole C/D)	63	10~63	Fixed	I_R , I_i , ±20%
	125	10~125	Fixed	I_R , I_i , ±20%
	160	32~160	Fixed	I_R , I_i , ±20%
	250	125~250	Fixed	I_R , I_i , ±20%
	400	250~400	Fixed	I_R , I_i , ±20%
	630	400~630	Fixed	I_R , I_i , ±20%
	800	630~800	Fixed	I_R , I_i , ±20%
	1000	800~1000	Fixed	I_R , I_i , ±20%
	1250	1000~1250	Adjustable	I_i : (7-8-9-10) I_n
	1600	1000~1600	Adjustable	I_i : (7-8-9-10) I_n

Protection Feature

Distribution protection—Electronic release

Electronic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of overcurrent protection I_R (A)	Release feature/time
Overload long-time-delay protection	160	32	16-18-20-22-25-28-30-32	I^2t=constant $1.05I_R$, no action within 2h $1.3I_R$, action with 1h $2I_R$, t_R=(12-60-80-100)s, I_{nm}<400A $2I_R$, t_R=(12-60-100-150)s, I_{nm}≥400A
		63	32-36-40-45-50-56-60-63	
		125	63-70-75-80-90-100-110-125	
		160	80-90-100-110-125-140-150-160	
	250	250	125-140-150-160-180-200-225-250	
	400	400	200-225-250-280-300-315-350-400	
	630	630	400-450-480-500-530-560-600-630	
	1000	800	630-660-680-700-720-750-780-800	
		1000	630-680-720-780-820-900-950-1000	
	1250	1250	630-700-800-900-1000-1100-1200-1250	
	1600	1600	800-900-1000-1100-1250-1400-1500-1600	
		Action allowance		±10%
Short circuit short-time-delay protection	All series	32~1600	I_{sd}=(1.5-2-3-4-5-6-8)I_R+OFF	t_{sd}=0.3,±0.06s
	Action allowance		±15%	
Instantaneous protection	160~1600	32~1600	I_i=(2-3-4-6-8-10-12)I_R+OFF	Instantaneous action
	Action allowance		±15%	
Neutral pole protection (code of four pole C/D)	All series	32~1600	I_{RN}=(0.5 ,1)I_n+OFF, Adjustable	
Indication of overload	All series	32~1600	I_{RO}=1.2I_R	

Distribution protection—Only magnetic release + residual current release

Only magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	125	10~125	Fixed	$10I_n$ ±20%	Instantaneous action
	160	125,160	Fixed	$10I_n$ ±20%	
	250	160~250	Fixed	$10I_n$ ±20%	
	400	315~400	Fixed	$10I_n$ ±20%	
	630	400~630	Fixed	$10I_n$ ±20%	
	800	630~800	Fixed	$10I_n$ ±20%	

	Frame size I_{nm}(A)	Residual current Release type	Residual current release type	Setting value of rated residual current $I_{\Delta n}$ (A)	Release time
Residual action current protection	125/160/250	AC Type	Non delay: single grade and non-adjustable	30/50/100/200/300/500	
			Three grades and adjustable	A/B/C/D	
			Delay type: single grade and non-adjustable	50/100/200/300/500	
			Three grades and adjustable	B/C/D	
	400/630	AC Type	Non delay: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	
			Delay type: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	

Non-delay type 5IΔn maximum breaking time(s)	≤0.4		
Delay type 2IΔn limit non-driving time (s) Adjustable	0.1	0.2	0.3
Delay type 2IΔn maximum breaking time(s) Adjustable	0.3	0.4	0.5

Functions and features

Protection Feature

Distribution protection—Thermal magnetic release+ residual current release

Thermal magnetic release	Frame size I_{nm}(A)	Rated current In(A)	Overload protection current Setting	Release feature
Overload protection	All series	10A~800A	Fixed	I^2t=constant 1.05 I_n(cold state), 2h non-release(I_n > 63A),1h non-release(I_n≤63A) 1.30 I_n(heat state), 2h release(I_n > 63A),1h release(I_n≤63A)

	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	125	10~125	Fixed	$10I_n$, ±20%	Instantaneous action
	160	125,160	Fixed	$10I_n$, ±20%	
	250	160~250	Fixed	$10I_n$, ±20%	
	400	315~400	Fixed	$10I_n$, ±20%	
	630	400~630	Fixed	$10I_n$, ±20%	

	Frame size I_{nm}(A)	Residual current release type		Setting value of rated residual current $I_{\Delta n}$(A)	Release time
Residual current protection	125/160/250	AC type	Non delay: single grade and non-adjustable	30/50/100/200/300/500	
			Three grades and adjustable	A/B/C/D	
			Delay type: single grade and non-adjustable	50/100/200/300/500	
			Three grades and adjustable	B/C/D	
	400/630	AC type	Non delay: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	
			Delay type: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	

Non-delay type 5IΔn maximum breaking time(s)	≤0.4		
Delay type 2IΔn limit non-driving time (s) Adjustable	0.1	0.2	0.3
Delay type 2IΔn maximum breaking time(s) Adjustable	0.3	0.4	0.5

Motor protection—Only magnetic release

Only magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	$12I_n$, ±20%	Instantaneous action
	125	10~125	Fixed	$12I_n$, ±20%	
	160	32~160	Fixed	$12I_n$, ±20%	
	250	125~250	Fixed	$12I_n$, ±20%	
	400	250~400	Fixed	$12I_n$, ±20%	
	630	400~630	Fixed	$12I_n$, ±20%	
	800	630~800	Fixed	$12I_n$, ±20%	

	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of neutral pole protection current	Setting value of neutral pole overload protection current(A) Setting value neutral pole short circuit protection current(A)
Neutral pole protection (code of N pole C/D)	63	10~63	Fixed	I_R, I_i, ±20%
	125	10~125	Fixed	I_R, I_i, ±20%
	160	125,160	Fixed	I_R, I_i, ±20%
		125,160	Fixed	I_R, I_i, ±20%
	250	160~250	Fixed	I_R, I_i, ±20%
	400	315~400	Fixed	I_R, I_i, ±20%
	630	400~630	Fixed	I_R, I_i, ±20%
	800	630~800	Fixed	I_R, I_i, ±20%

Protection feature

Motor protection—Thermal magnetic release

Thermal magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of overcurrent protection	Release feature
Overload protection	125~800	25~630A	Fixed	I^2t=constant 1.0In(cold state), ＞2h non release 1.2In(hot state), ≤2h release 7.2In(hot state),4s≤T≤10s, 10A≤In≤225A 6s≤T≤20s, 225A＜In≤630A(including 800A frame 630A) Trip class: 10(≤160A), 20(160A＜In≤630A)

Thermal magnetic release	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i(A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	$12I_n$, ±20%	Instantaneous action
	125	10~125	Fixed	$12I_n$, ±20%	
	160	32~160	Fixed	$12I_n$, ±20%	
	250	125~250	Fixed	$12I_n$, ±20%	
	400	250~400	Fixed	$12I_n$, ±20%	
	630	400~630	Fixed	$12I_n$, ±20%	
	800	630~800	Fixed	$12I_n$, ±20%	

	Frame size I_{nm}(A)	Rated current I_n(A)	Setting of neutral pole protection current	Setting value of neutral pole overload protection current(A) Setting value neutral pole short circuit protection current(A)
Neutral pole protection (code of N pole C/D)	63	10~63	Fixed	I_R I_i ±20%
	125	10~125	Fixed	I_R I_i ±20%
	160	125,160	Fixed	I_R I_i ±20%
		125,160	Fixed	I_R I_i ±20%
	250	160~250	Fixed	I_R I_i ±20%
	400	315~400	Fixed	I_R I_i ±20%
	630	400~630	Fixed	I_R I_i ±20%
	800	630~800	Fixed	I_R I_i ±20%

Motor protection—Electronic release

<table>
<tr><th>Electronic release</th><th>Frame size I_{nm} (A)</th><th>Rated current I_n (A)</th><th>Setting of overcurrent protection I_R (A)</th><th>Release feature/time</th></tr>
<tr><td rowspan="8">Overload long-time-delay protection</td><td rowspan="6">160</td><td>32</td><td>16-18-20-22-25-28-30-32</td><td rowspan="8">I^2t=constant
<table><tr><td>$1.05I_R$</td><td colspan="4">No actuation within 2h</td></tr><tr><td>$1.2I_R$</td><td colspan="4">Actuation within 1h</td></tr><tr><td>Release class</td><td>10A</td><td>10</td><td>20</td><td>30</td></tr><tr><td>$1.5I_R$</td><td>53</td><td>107</td><td>178</td><td>267</td></tr><tr><td>$2I_R$</td><td>30</td><td>60</td><td>100</td><td>150</td></tr><tr><td>$7.2I_R$</td><td>2.3</td><td>4.6</td><td>7.7</td><td>11.6</td></tr><tr><td colspan="5">Delay time accuracy: ±20%</td></tr></table></td></tr>
<tr><td>63</td><td>32-36-40-45-50-56-60-63</td></tr>
<tr><td>100</td><td>63-70-75-80-85-90-95-100</td></tr>
<tr><td>125</td><td>63-70-75-80-90-100-110-125</td></tr>
<tr><td>160</td><td>80-90-100-110-125-140-150-160</td></tr>
<tr><td>200</td><td>100-125-140-150-160-170-180-200</td></tr>
<tr><td>250</td><td>250</td><td>125-140-150-160-180-200-225-250</td></tr>
<tr><td>400</td><td>400</td><td>200-225-250-280-300-315-350-400</td></tr>
<tr><td>630</td><td>630</td><td>400-450-480-500-530-560-600-630</td></tr>
<tr><td colspan="3">Operation allowance</td><td>±20%</td></tr>
<tr><td>Short circuit short-time-delay protection</td><td>160~630</td><td>32~630</td><td>I_{sd}=(1.5-2-3-4-5-6-8)I_R+OFF</td><td rowspan="2">t_{sd}=0.3,±0.06s</td></tr>
<tr><td colspan="3">Operation allowance</td><td>±15%</td></tr>
<tr><td>Instantaneous protection</td><td>160~630</td><td>32~630</td><td>I_i=(2-4-6-8-10-12-14)I_R+OFF</td><td rowspan="2">Instantaneous action</td></tr>
<tr><td colspan="3">Operation allowance</td><td>±15%</td></tr>
<tr><td>Neutral pole protection (N pole code C/D)</td><td>160~630</td><td>32~630</td><td>I_{RN}= (0.5, 1)I_R+OFF, adjustable</td><td></td></tr>
<tr><td>Overload indication</td><td>160~630</td><td></td><td>I_{RO}=1.2I_R</td><td></td></tr>
</table>

Functions and features

Protection feature

Motor protection—Only magnetic release + residual current release

Only magnetic release	Frame size I_{nm} (A)	Rated current I_n (A)	Setting of short circuit protection current	Setting value of short circuit protection current I_i (A) and allowance	Release time
Short circuit protection	125	10~125	Fixed	$12I_n$, ±20%	Instantaneous action
	160	125,160	Fixed	$12I_n$, ±20%	
	250	160~250	Fixed	$12I_n$, ±20%	
	400	315~400	Fixed	$12I_n$, ±20%	
	630	400~630	Fixed	$12I_n$, ±20%	

	Frame size I_{nm} (A)	Residual current Release type	Residual current release type	Setting value of rated residual current $I_{\Delta n}$(A)	Release time
Residual action current protection	125/160/250	AC type	Non delay: single grade and non-adjustable	30/50/100/200/300/500	
			Three grades and adjustable	A/B/C/D	
			Delay type: single grade and non-adjustable	50/100/200/300/500	
			Three grades and adjustable	B/C/D	
	400/630	AC type	Non delay: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	
			Delay type: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	

Non-delay type 5IΔn maximum breaking time(s)	⩽0.4		
Delay type 2IΔn limit non-driving time (s) Adjustable	0.1	0.2	0.3
Delay type 2IΔn maximum breaking time(s) Adjustable	0.3	0.4	0.5

Motor protection—Thermal magnetic release+ residual current release

Thermal magnetic release	Frame size I_{nm} (A)	Rated current I_n (A)	Overload protection current setting	Release feature
Overload protection	125~800	25A~630A	Stationary	I^2t=constant 1.0In (cold state),>2h non release 1.2In (hot state),⩽2h release 1.5In (hot state),⩽4min, 10A⩽In⩽225A ⩽8min, 225A<In⩽630A (including800A housing 630A) 7.2In (hot state),4s⩽T⩽10s, 10A⩽In⩽225A 6s⩽T⩽20s, 225A<In⩽630A (including800A housing 630A) release class: 10 (⩽160A), 20 (160A<In⩽630A)

Motor protection—Thermal magnetic release+ residual current release

Thermal magnetic release	Frame size I_{nm} (A)	Rated current I_n (A)	Setting of short circuit protection current	Setting value of short circuit protection current Ii (A) and allowance	Release time
Short circuit protection	63	10~63	Stationary	$12I_n$ ±20%	Instantaneous action
	125	10~125	Stationary	$12I_n$ ±20%	
	160	125,160	Stationary		
		125,160	Stationary	$12I_n$ ±20%	
	250	160~250	Stationary	$12I_n$ ±20%	
	400	315~400	Stationary	$12I_n$ ±20%	
	630	400~630	Stationary	$12I_n$ ±20%	

	Frame size I_{nm} (A)	Residual current release type	Residual current release type	Setting value of rated residual current $I_{\Delta n}$ (A)	Trip time
Residual current protection	125/160/250	AC type	Non delay: single grade and non-adjustable	30/50/100/200/300/500	
			Three grades and adjustable	A/B/C/D	
			Delay type: single grade and non-adjustable	50/100/200/300/500	
			Three grades and adjustable	B/C/D	
	400/630	AC type	Non delay: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	
			Delay type: single grade and non-adjustable	50/100/200/300/500/1000	
			Three grades and adjustable	B/C/D/E	

Non-delay type 5IΔn maximum breaking time(s)	⩽0.4		
Delay type 2IΔn limit non-driving time (s) Adjustable	0.1	0.2	0.3
Delay type 2IΔn maximum breaking time(s) Adjustable	0.3	0.4	0.5

AX-M3 auxiliary contact

Schematic diagram of assembly of auxiliary contact with the body

Inner accessories

AX auxiliary contact

Function: Remote indication of "ON" , "OFF" position of the breaker, connect to the control circuit of breaker.

Model description

AX-□□□□

- Applicable product: general (omit) , residual current type (LE)
- Applicable product poles: 2P(2), general (omit)
- Installation site code : left side installation (code L) and right side installation (code R)
- Frame size code (see table1)
- Name code of auxiliary contact

Table1 Frame size code

Frame size	63/125	160	250	400/630	800	1000	1250/1600
Code	M1	M2	M3	M4	M5	M6	M7

For example: 63/125 frame right auxiliary contact code: AX-M1R

To indicate the "ON" or "OFF "state of circuit breaker

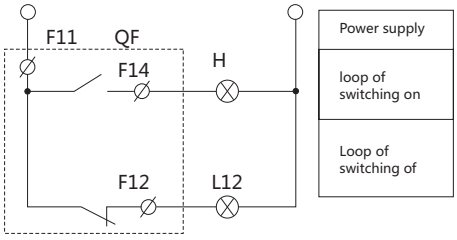
AX	Opening or free trip OFF & TRIP	FX12 FX14		FX11
	Closing ON	FX12 FX14		FX11

Electrical characteristics

Operational voltage (V)		AC-15	DC-13	
		AC380/400/415	DC110	Dc220
Operational current (A)	63~320	0.26	0.14	0.14
	400~1000	0.4	0.2	0.2
	1600	0.47	0.27	0.27

Wiring diagram

Auxiliary contact can be wired with indicator light.
The operator can know the location of switch '' ON '' or '' OFF '' without open the power distribution cabinet via indicator light.



AL-M6 alarm contact

Schematic diagram of assembly of alarm contact with the body

Inner accessories

AL alarm contact

Function: It is mainly used to provide signal in case of failure of circuit breaker or free trip.
Reasons for alarm contact to send failure indication signal:

- Overload or short circuit trip
- Under voltage trip
- Residual current operated trip
- Manual free trip

Model description

AL-□□□□

- Applicable product: general (omit) , residual current type (LE)
- Applicable product poles: 2P(2), general (omit)
- Installation site code : left side installation (code L) and right side installation (code R)
- Frame size code (see table1)
- Name code of alarm contact

For instance: the left alarm contact code of 63/125 frame is: AL-M1L

To indicate the "ON" or "OFF " state of circuit breaker

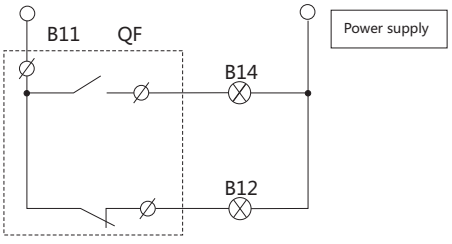
AL	Open or close OFF & ON	B12 B14	B11
	TRIP	B12 B14	B11

Electrical characteristics

Operational voltage (V)		AC-15	DC-13	
		AC380/400/415	DC110	DC220
Operational current (A)	63~320	0.26	0.14	0.14
	400~1000	0.4	0.2	0.2
	1600	0.47	0.27	0.27

Wiring diagram

Alarm contact can be connected with indicator light, buzzer and the like, and thus the operator can be timely informed in case of release of circuit breaker.



UV T-M4 under voltage release

Schematic diagram of assembly of under voltage release and non-release module with the body

Inner accessories

UVT under voltage release

Function: To switch off the circuit breaker in case of under voltage of power supply so as to protect the electric equipment.

- The under voltage release shall switch off the circuit breaker reliably when the power supply voltage decreases (or even decrease slowly) to 70%-35% of rated control power supply voltage.
- It shall ensure the closing of breaker when the power supply voltage equals to or is more than 85% of rated control power supply voltage of under voltage release.
- The under voltage release shall be able to prevent closing of circuit breaker when the supply voltage is less than 35% of rated control supply voltage of under voltage release.

Model description

UVT-□□□□□

- Applicable product: Thermal-magnetic (omit) , residual current type(LE): Electronic(E)
- Applicable product poles: 2P(2), general (omit)
- Installation site code : left side installation (code L) and right side installation (code R)
- Applicable voltage code (see table2, only A1, A2 are applicable)
- Frame size code (see table1)
- Name code of under voltage release

Table2 Applicable voltage code

Voltage	AC230V	AC400V	DC24V	DC110V	DC220V
Code	A1	A2	D1	D2	D3

For example: right under voltage release code of 63/125 frame 400V: UV T-M1A2

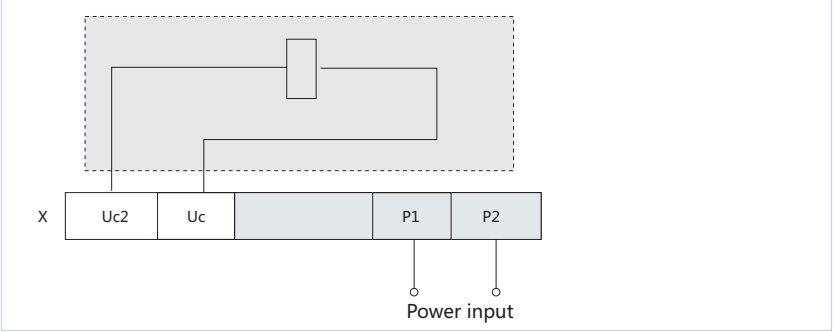
Electrical characteristics

Frame size (A)	Under voltage release code (VA or W)	
	AC230V	AC400V
63/125	3.1	4
160	3.2	3.9
250/320	3.3	4.3
400/630	2.5	3.6
800	1.6	2
1000	1.6	2
1600	1.6	2

Operating characteristics

Operating conditions (XU_c)	Switching off reliably	35%~70%
	Preventing closing	⩽35%
	Closing reliably	⩾85%
Response time		1s
Operation times		1000

Wiring diagram



SHT-M2 shunt release

Schematic diagram of assembly of shunt release with the body

Inner accessories

SHT shunt release

Function: Shunt release is an accessory for remote control.
The shunt release shall be able to make circuit breaker operating reliably when the power voltage equals to any voltage within the range of 70%~110% of rated control power voltage.

Model description

SHT-□□□□□

- Applicable product: general (omit) , residual current type (LE)
- Applicable product poles: 2P(2), general (omit)
- Installation site code : left side installation (code L) and right side installation (code R)
- Applicable voltage code (see table2, only A1, A2 are applicable)
- Frame size code (see table1)
- Name code of shunt release

For example: left shunt release code of 63/125 housing 400V: SHT-M1A2L

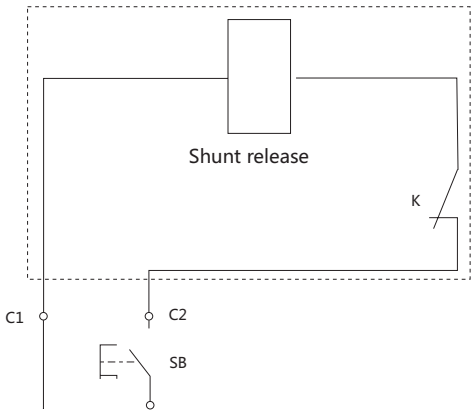
Electrical characteristics

Frame size(A)	Code of under voltage release (VA or W)				
	AC230V	AC400V	DC24V	DC110V	DC110V
63/125	76	91.5	91	80	136
160	73	96.5	91	52.8	71
250/320	68.5	112	85.3	58	66
400/630	62.5	68	100	105	56
800	153	168	120	105	56
1000	153	163	120	105	56
1250/1600	175	183	140	143	286

Operating characteristics

Reliable operating voltage		70%~110%XU_s
Conduction time (pulse mode)	minimum	10ms
	maximum	1s
Response time		30ms
Number of operations		1000

Wiring diagram



MD-M2 electric operational mechanism

Schematic diagram of assembly of motor-driven mechanism with the body

External accessories

MD motor-driven mechanism

Function: it is applicable for switching circuit breaker on and off and retrip remotely, as well as automation application.

Model description

MD - □□□□

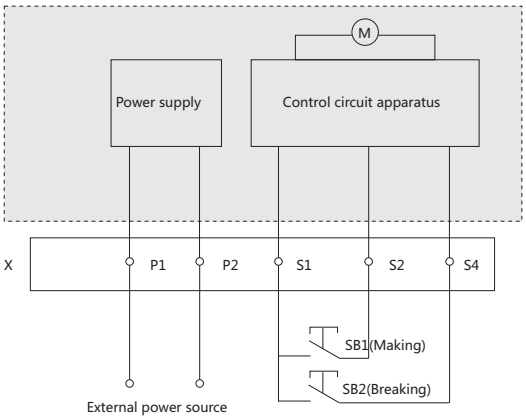
- Applicable product: Thermal-magnetic (omit), Electronic type (E), residual current type (LE).
- Product breaking capacity: General (omit), S,H.
- Applicable voltage code (see table2, only A1, A2 are applicable)
- Frame size code (see table1)
- Name code of motor-driven mechanism

For example: motor driven code of 63/125 frame moulded case circuit breaker 400V: MD-M1A2

Electrical characteristics

Category / Model	63/125/250/320 frame	All series
Structural style	Electromagnet	DC-AC
Voltage specification	AC230V, 400V	AC110V, 230V, 400V, DC24V, 110V, 220V
Rated frequency	50Hz	50Hz

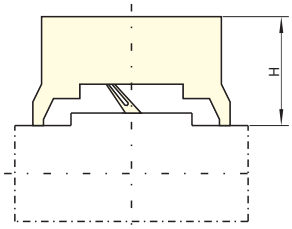
Wiring diagram



Description: SB1, SB2 is separately the on and off button;
P1, P2 are the external power line terminal. P1 will be connected to "+", and P2 will be connected to "-" if the external power source is DC.

Motor-driven mechanism

Installation sketch of electric operational mechanism



Frame size	63A / 125A	160A	250A / 320A	400A / 630A	800A	1000A	1250/1600A
Installation size H(mm)	93	97	97.5	154	154	154.5	156.5

ERH-M6

Scheme diagram of assembly of manual operational mechanism with the body

PIA-M2

External accessories

ERH manual operational mechanism

Function: It realizes switching on, off and restriping via rotary handle according to human body mechanics with unique design and transmission device.

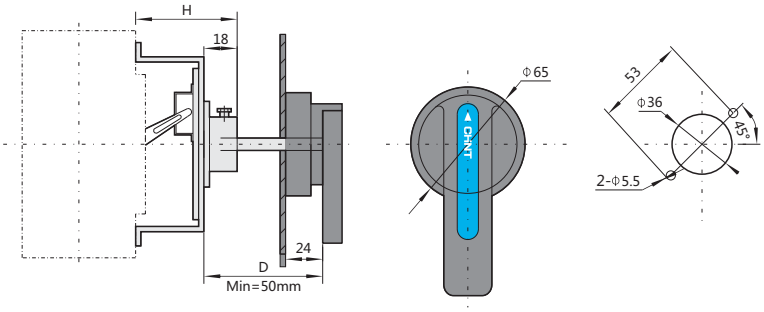
Model description

ERH - □□

- Category code of adaptive products: thermal magnetic type; electronic type (no code) residual current (code LE)
- Frame size (table 1)
- Name code of manual operational mechanism

For example: manual operational mechanism code of 63/125 frame residual current operating: ERH-M1LE

Installation diagram of manual operational mechanism



Frame size	63A / 125A	160A	250A / 320A	400A / 630A	800A	1000A	1250/1600A
Installation sizes (mm)	53.5	61.5	63.5	98	97	97	68.5

Note: Installation dimension of thermal magnetic type moulded circuit breaker is 98mm, and for residual current circuit breaker is 96mm.

PIA plug-in basement

Function: It is convenient to replace moulded case circuit breaker without disassembling inlet-outlet line.
Model description

PIA-□□

- applicable product poles: 3(3p),4(4p)
- Frame size code(see table1)
- Name code of plug-in basement

For example: plug-in basement code of 160 frame three-pole circuit breaker: PIA-M2 3

FCP-M4

Assembly scheme diagram of front connection plate and the body

RCP-M3

Assembly scheme diagram of rear connection plate and the body

External accessories

FCP front connection plate

Function: It grants the breaker a flexible line connecting way. The phase spacing can increase via accessories so as to increase the electrical space between the adjacent phases of line terminal of input and output of breaker, and thus increase the safety among the lines.

Model description:

FCP - □□

- Pole number code of adaptive product: two poles (code 2), three poles (code 3), four poles (code 4)
- Frame size code (table 1)
- Name code of front connection plate

RCP rear connection plate

Function: It grants the breaker with flexible line connecting way, which is used to match the switch board or other requirements so as to realize the line connecting on the back of the installation plate.

Model description

RCP - □□

- Pole number code of adaptive product: two poles (code 2), three poles (code 3), four poles (code 4)
- Frame size code (table 1)
- Name code of rear connection plate

For example: 63/125 frame three-pole circuit breaker with rear connection plate code: RCP-M 13

PTU-1

Data interface

Charging interface

Navigation key interface

External accessories

Handheld test module (PTU-1)

Handheld test module is the extension of the circuit breaker function, it can connection circuit breaker through USB interface, also the information of circuit breaker can be displayed in the handheld test module. User can query and set the parameters of the circuit breaker as needed. Users can easily monitor and repair the circuit breaker.

- Features:
- Query the factory parameters, shell current, rated current, communication address and other informations of the circuit breaker;
- Query overload long delay, short delay, short circuit instantaneous, N phase protection, ground fault current value,operating time and other settings parameters;
- Query real-time phase current value of the circuit breaker ABCN phase, the last fault alarm current parameter value;
- Set the protection characteristic parameter of circuit breaker.(Not available for Dial-type electronic circuit breakers);
- Can set the display brightness, screensaver power, serial communication parameters and circuit breaker communication address;
- Circuit breaker analog signal trip test.

Power supply	Single 14500 lithium-ion battery
Battery capacity	⩾800mAh
Operational Voltage	3.7 ~ 4.2V
Charging method	USB +5V
Control mode	Pushbutton
LCD screen	3.2 inch TFT color, vertical screen display
Backlight brightness	1~100 level adjustment
Screensaver saving	30 to 120 seconds can be set, can be closed
Battery power monitoring	Yes
Continuous working hours	2h
Operating temperature	-20℃~ 70℃
Wired communication	Protocol：Modbus-RTU Serial communication rate：1200/2400/4800/9600/19200bps

- Operating:
- Use five navigation keys with three shortcuts and one power key, it can provide users with simple and quick operation experience;
- The five navigation keys default to up, down, left, right, and confirmation;
- The three shortcut keys are R, W, T, respectively, for the read parameters, set the parameters of the test test trip;
- Power key press two seconds to switch operation, and operating tips are on the bottom of each pages.

Functions and features

COMA-3

R485 Connection port

Circuit breaker communication interface

External accessories

Modbus Communication module(COMA-3)

COMA-3 external Modbus communication module (Electronic type) is the extension of the circuit breaker function. Through the connection with the circuit breaker communication interface to achieve the physical layer of signal conversion. The interface of the RS485 communication module can be connected to the host computer and realize the remote function of the circuit breaker.

- Features:
- Built-in power supply module, can connect with an external power of 220V AC or 24V DC;
- Features:The communication module will supplies power to the circuit breaker electronic release;
- Features:Can convert the communication single between the circuit breaker and host computer;
- Features:Remote control of two relay output by receiving the instructions of the host computer;
- Features:Meet the users` need of the circuit breaker network construction.

- Characteristic:

Voltage	DC24V
Power consumption	⩽2.8W
Communication rate	RS485 Communication baud rate : 1200/2400/4800/9600/19200 bps
Relay output capacity	5A，DC 30V
Operating temperature	-20℃～ 70℃

- Installation
- Installation via DIN35-7.5 standard rail.

Complementary data

Altitude reducing capacity and correction coefficient table

It has no impact on the breaker feature where the altitude equals to 2000 m or below. The breaker electrical feature shall be corrected according to the following table.

Altitude (m)	2000	3000	4000	5000
Correction coefficient of operating current	1In	0.94In	0.88In	0.85In
Maximum operationnal voltage (V)	690	600	500	440
Insulation voltage (V)	1000	800	700	600
Power frequency withstand voltage (V)	3000	2500	2000	1800

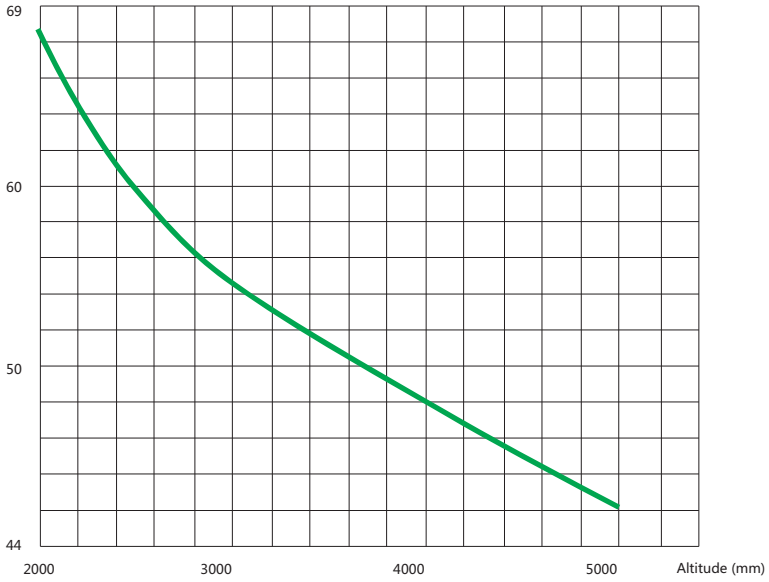
Plug-in and rear connection current derating table

Frame size	Rated current(A)	Plug-in derating current(A)	Note
630	500	450	
	630	520	
800	700	650	
	800	720	
1000	900	850	
	1000	920	

Note: There is no need of current derating as no specification in the table

Altitude derating curve

Maximum operation



Electronic type derating coefficient table

Frame size	Rated current	Long-time delay current setting	-25℃	-20℃	-15℃	-10℃	-5℃	-0℃	Rated current	40℃	45℃	50℃	55℃	60℃	65℃	70℃
NXMS-160	32A、63A、125A、160A	I_R<0.65In	1.2I_R	1.2I_R	1.1I_R	1.1I_R	1.05I_R	1.05I_R	32A、63A、125A	1.0In			0.9In	0.85In	0.8In	0.8In
		I_R>0.65In	1.0I_R						160A	1.0In		0.9In	0.85In	0.8In	0.7In	0.7In
NXMS-250	250A	I_R<0.58In	1.15I_R	1.15I_R	1.15I_R	1.05I_R	1.05I_R	1.05I_R	250A	1.0In			0.9In	0.85In	0.8In	0.8In
		I_R>0.58In	1.0I_R													
NXMS-630	400A、630A	ALL	1.0I_R						400A	1.0In			0.9In	0.85In	0.8In	0.8In
									630A	1.0In		0.9In	0.85In	0.8In	0.7In	0.7In
NXMS-1000	800A、1000A	ALL	1.0I_R						800A	1.0In			0.9In	0.85In	0.8In	0.8In

Power loss table

Product model	Making current(A)	Single pole resistance (mΩ)	3/4pole total power loss		
			Front connection	Rear connection	Plug-in rear connection
NXM-63	63	0.75	24	27	28
NXM-125	125	0.72	28	31	32
NXM-160	160	0.4	60	87	89
NXM-250	250	0.2	63	90	90
NXM-400	400	0.15	68	72	100
NXM-630	630	0.14	180	190	200
NXM-800	800	0.08	200	230	290
NXM-1000	1000	0.06	250	280	300
NXM-1600	1600	0.027	280	–	–
NXMS-160	160	0.2	40	50	62
NXMS-250	250	0.18	50	75	86
NXMS-400	400	0.1	58	87	90
NXMS-630	630	0.08	110	120	130
NXMS-1000	1000	0.05	140	155	167
NXMS-1600	1600	0.02	250	–	–
NXMLE-160	160	0.73	60	87	89
NXMLE-250	250	0.27	63	90	90
NXMLE-400	400	0.11	68	72	100
NXMLE-630	630	0.09	180	190	200
NXHM-63	63	0.4	28	31	35
NXHM-125	125	0.6	60	87	87
NXHM-160	160	0.2	40	50	62
NXHM-250	250	0.18	50	75	86
NXHM-320	320	0.19	55	80	89
NXHM-400	400	0.1	58	87	90
NXHM-630	630	0.08	110	120	130
NXHM-800	800	0.05	200	230	290
NXHM-1000	1000	0.02	140	155	167

Parameter table of connecting cable/copper bar

The reference section of connecting cable/copper bar with different rated current is as follows.

Rated current (A)	Section of wire (mm^2)
10	1.5
16, 20	2.5
25	4.0
32	6.0
40, 50	10
63	16
70, 75,80	25
100	35
125, 140, 150	50
160	70
180, 200, 225	95
250	120
280, 315, 320, 350	185
400	240

Functions and features

Rated current (A)	Cable		Copper bar	
	Section (mm^2)	Quantity	Width x thickness (mm)	Quantity
500	150	2	30×5	2
630	185	2	40×5	2
700, 800	240	2	50×5	2
			50×10	1
900, 1000	-	-	50×5	3
			63×10	1
1250	-	-	50×5	3
			40×10	2
1600	-	-	60×5	4
			60×10	2

The above reference section is the reference value under 40 degrees operating environmental temperature.

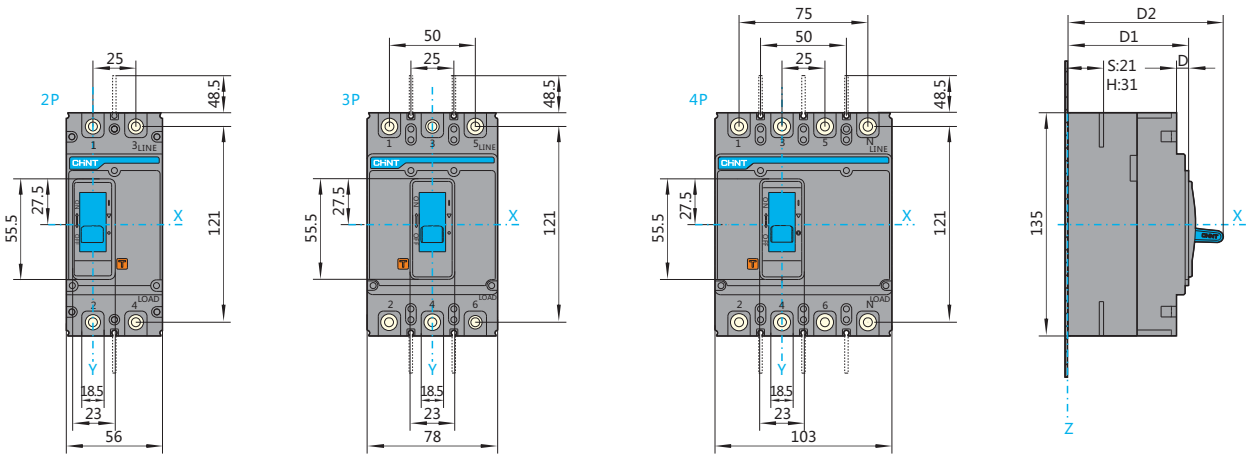
The recommended value of tightening torque of different housing current connecting cable/copper bar is as follows:

Rated current (A)	63A/125A	160A	250A/320A	400A/630A	800A	1000A/1250A/1600A
Torque (N m)[1]	3/6[4]	10	12	30	30	30
Torque (N m)[2]	3/6[4]	10	12	30	30	30
Torque (N m)[3]	3/6[4]	10	12	30	30	30

[1] Tighten the torque of busbar (or extension busbar/connection lug) in case of connecting with the body directly.
[2] Tighten the torque of connecting terminal behind the stationary breaker/tighten the torque of connecting terminal of plug in breaker.
[3] Tighten the torque of extension busbar of terminal on the plug-in pedestal.
[4] Value of torque is 3 for 10A~63A of frame current 63 and 125A breaker, value of torque is 6 for 70A~125A for frame current 125A breaker.

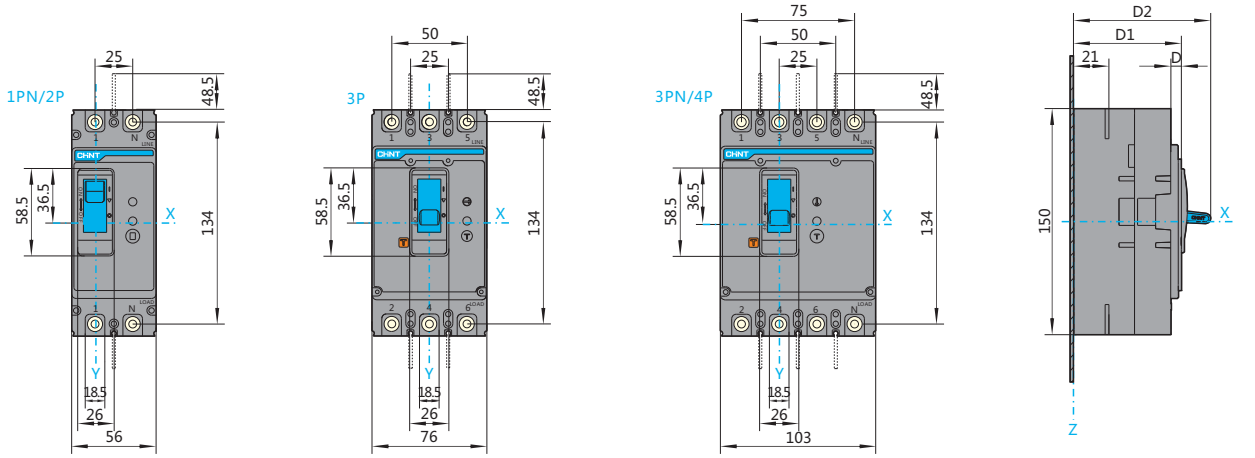
NXM- 63E/S/F/H, 125E/S/F/H, NXHM- 63, 125

Front connection, dimension (mm)



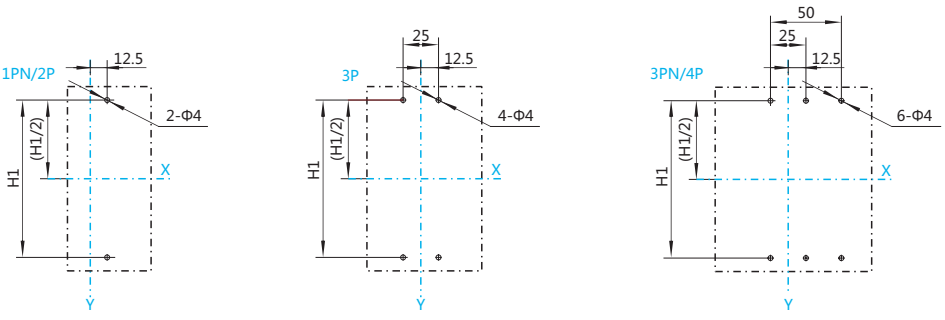
NXMLE-125S/F/H

Front connection, dimension (mm)



NXM-63E/F/S/H, 125E/F/S/H, NXHM-63,125, NXMLE-125F/S/H

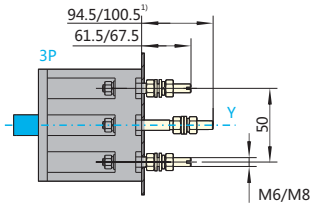
Installation size of baseplate

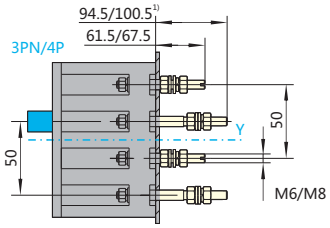


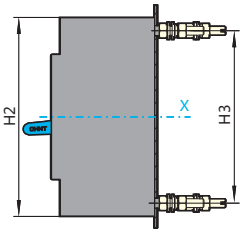
Specification and model	D1	D2	D	H1			Remark
				1PN/2P	3P	3PN/4P	
NXM-63E/S、125E/S	70.5	90	7	117	117	117	2P/3P/4P
NXM-63F/H、125F/H	80.5	100	7	-	117	117	3P/4P
NXMLE-125S	71	90	7	133.6	133.6	133.6	1PN/2P/3P/3PN/4P
NXMLE-125F/H	81	100	7	-	133.6	133.6	3P/3PN/4P
NXHM-63、125	70.5	90	7	-	117	117	3P/4P

Dimensions and installation

NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125 — **Rear connection (mm)**

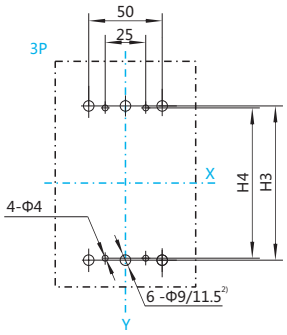


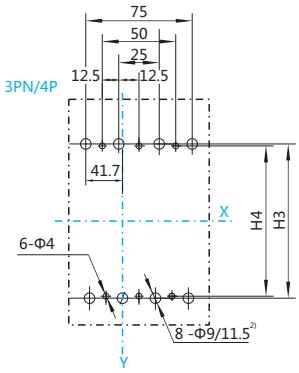




[1)] 94.5, 61.5, M6 are for frame current 10~63A breaker;
100.5, 67.5, M8 are for frame current 70~125A breaker;

NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125 — **Rear connection (mm)**

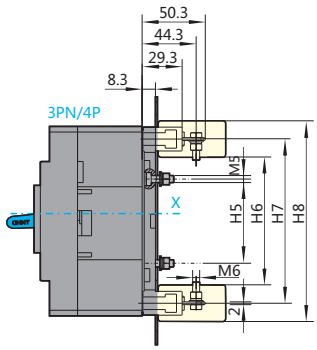


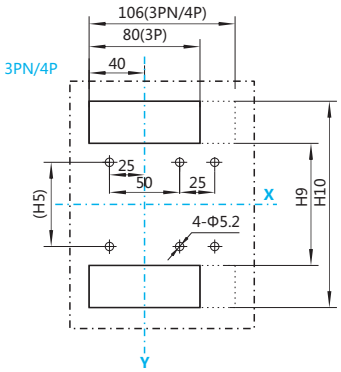


[2)] Φ9 is for frame current 10~63A breaker;
Φ11.5 is for frame current 70~125A breaker;

Specification and model	H2	H3	H4	Remark
NXM-63E/S/F/H, 125E/S/F/H	135	121	117	3P/4P
NXMLE-125S/F/H	150	134	133.6	3P/3PN/4P
NXHM-63, 125	135	121	117	3P/4P

NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125 — **Plug-in rear connection (mm)**

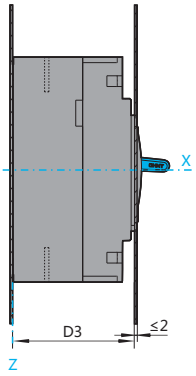




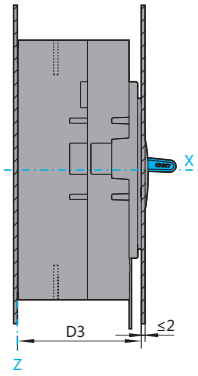
Specification and model	H5	H6	H7	H8	H9	H10	Remark
NXM-63E/S/F/H、125E/S/F/H	60	75	121	159	92	144	3P/4P
NXMLE-125S/F/H	80	106.5	134	158.5	114	151	3P/3PN/4P
NXHM-63、125	60	75	121	159	92	144	3P/4P

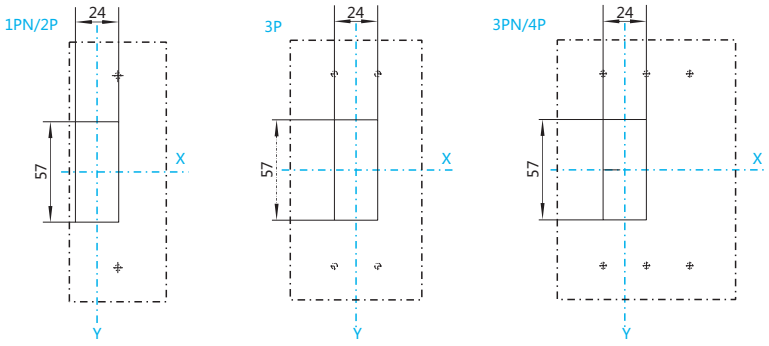
NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125 — **Cabinet gate hole (small) size (mm)**

NXM-63, 125
NXHM-63, 125



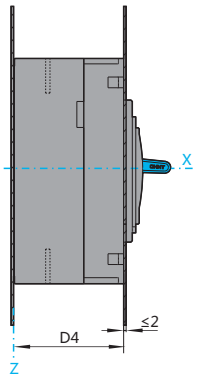
NXMLE-125



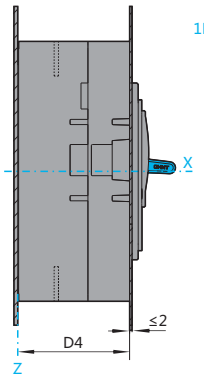


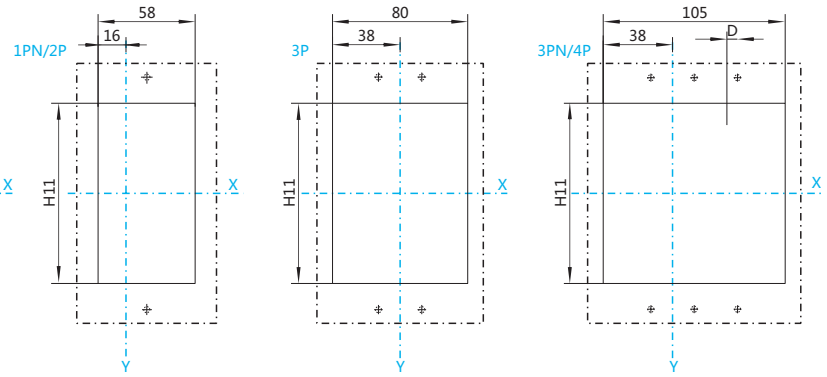
NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125 — **Cabinet gate hole (large) size (mm)**

NXM-63、125
NXHM-63、125



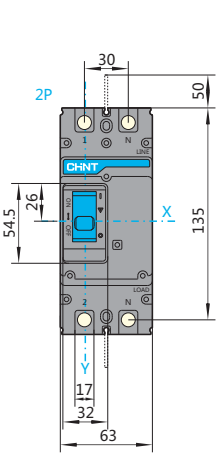
NXMLE-125

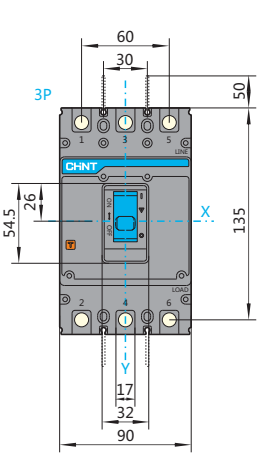


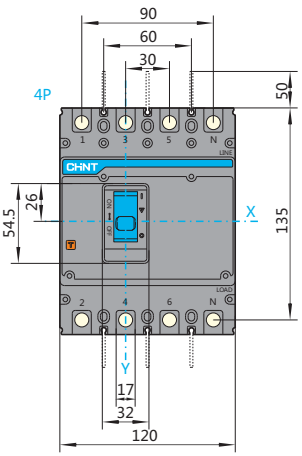


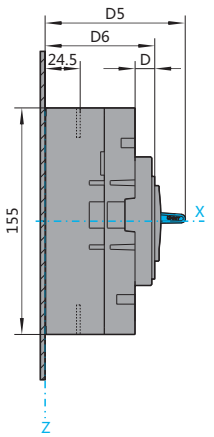
Specification and model	D3	D4	H11			Remark
			1PN/2P	3P	3PN/4P	
NXM-63E/S, 125E/S	70.5	63.5	86	86	86	2P/3P/4P
NXM-63F/H, 125F/H	80.5	73.5	-	86	86	3P/4P
NXMLE-125S	71.5	64.5	104	104	104	1PN/2P/3P/3PN/4P
NXMLE-125F/H	81	74	-	104	104	3P/3PN/4P
NXHM-63, 125	70.5	63.5	-	86	86	3P/4P

NXM-160E/S/F/H, NXHM-160 — **Rear connection, dimension (mm)**



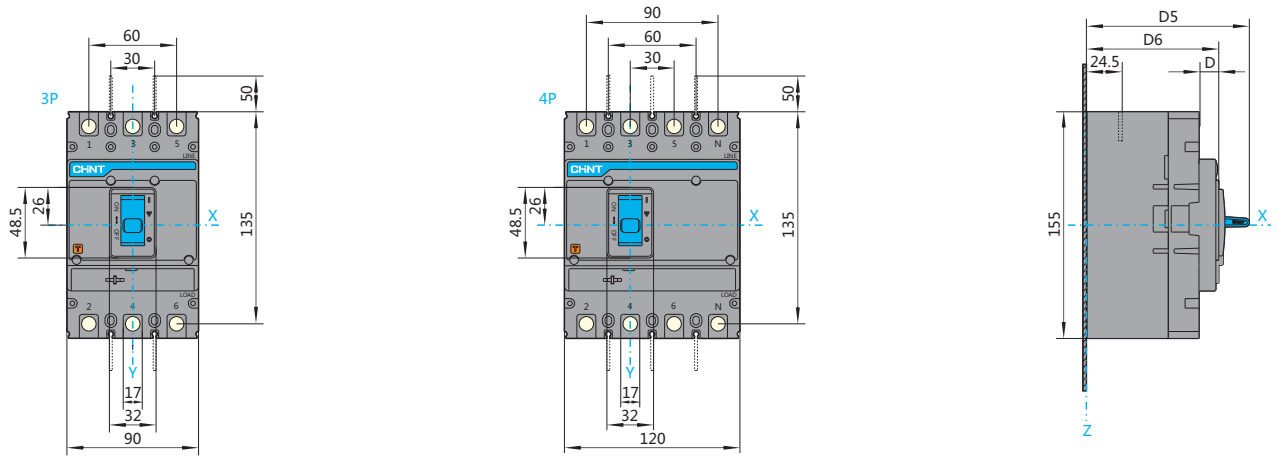




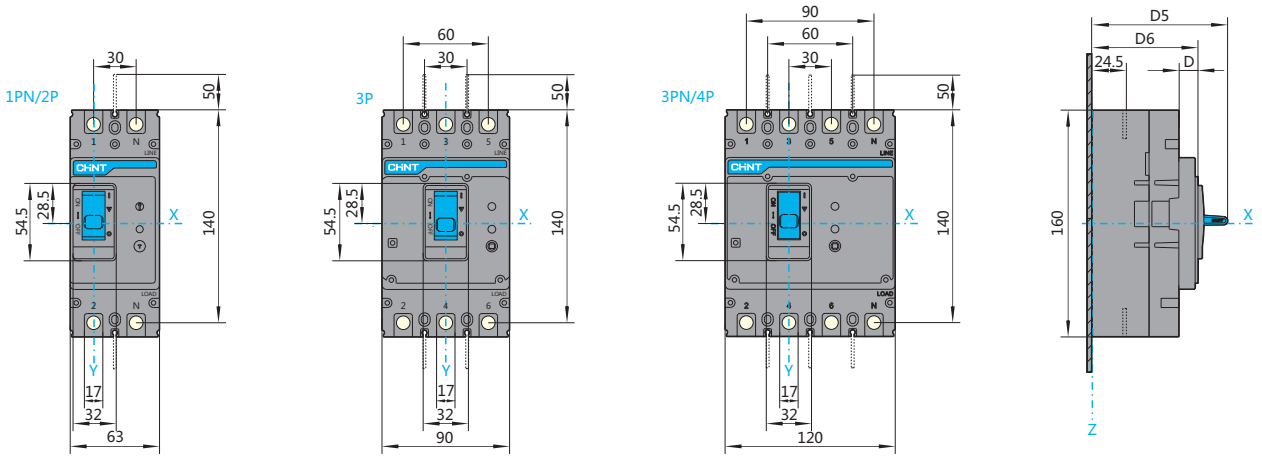


Dimensions and installation

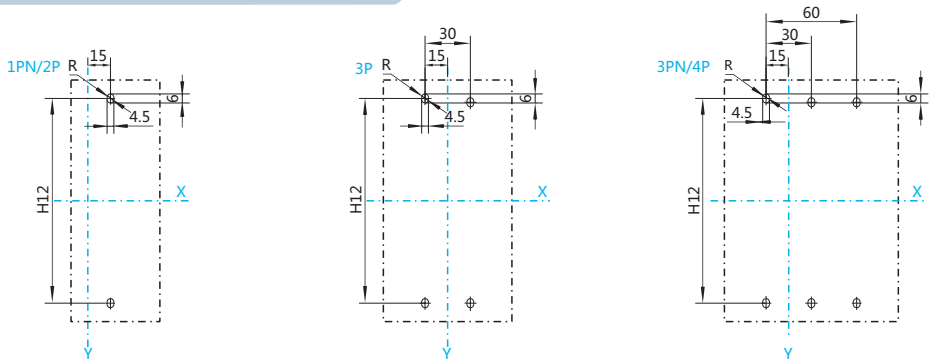
NXMS-160F/H — Front connection, dimension (mm)



NXMLE-160S/F/H — Front connection, dimension (mm)

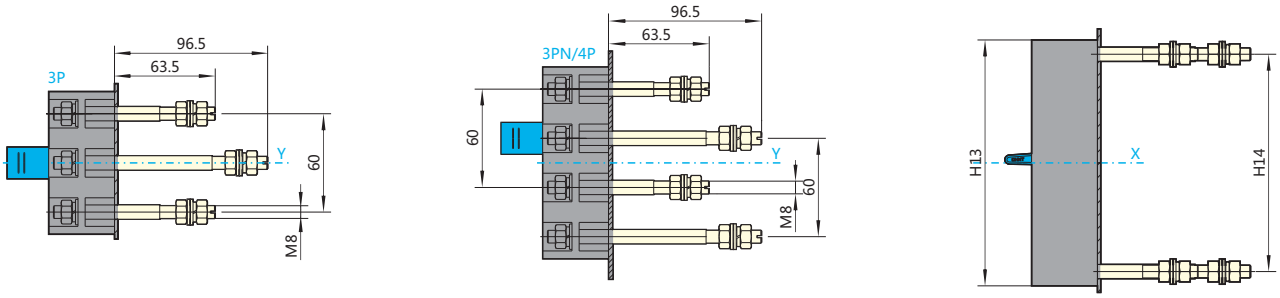


NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H, NXHM-160 — Installation size of baseplate (mm)

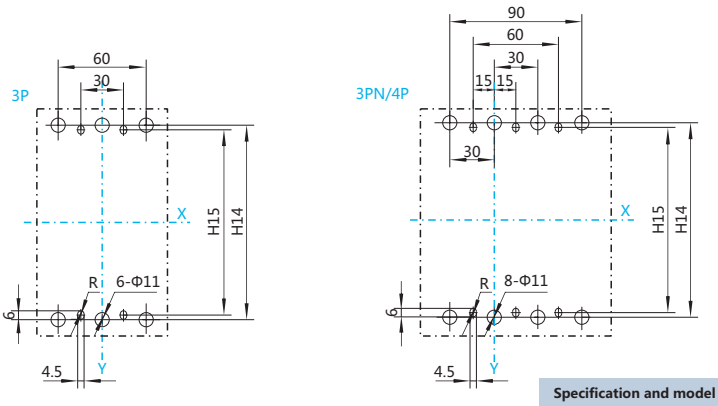


Specification and model	D6	D5	D	H12			Remark
				1PN/2P	3P	3PN/4P	
NXM-160E/S	75	96	13.5	130.5	130.5	130.5	2P/3P/4P
NXM-160F/H	90.5	112	13.5	-	130.5	130.5	3P/4P
NXMS-160F/H	90.5	112	13.5	130.5	130.5	130.5	3P/4P
NXMLE-160S	75	96	13.5	-	135.5	135.5	1PN/2P/3P/3PN/4P
NXMLE-160F/H	90.5	112	13.5	-	135.5	135.5	3P/3PN/4P
NXHM-160	90.5	112	13.5	-	130.5	130.5	3P/4P

NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H, NXHM-160 — **Rear connection, dimension (mm)**

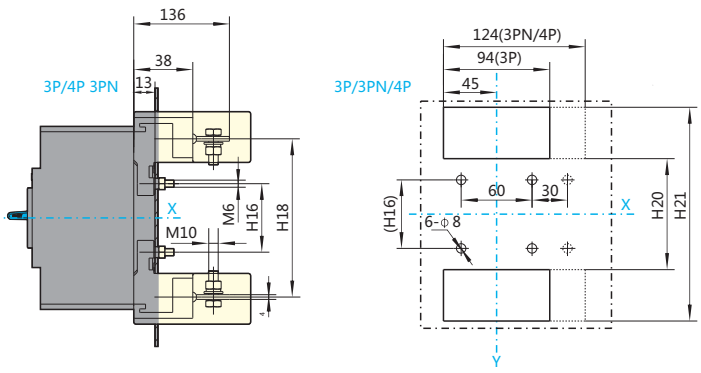


NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H, NXHM-160 — **Plug-in rear connection, dimension (mm)**



Specification and model	H13	H14	H15	Remark
NXM-160E/S/F/H	155	136	130.5	3P/4P
NXMS-160F/H	155	136	130.5	3P/4P
NXMLE-160S/F/H	160	140	135.5	3P/3PN/4P
NXHM-160	155	135	130.5	3P/4P

NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H, NXHM-160 — **Plug-in back-panel wiring, outline and installation size (mm)**

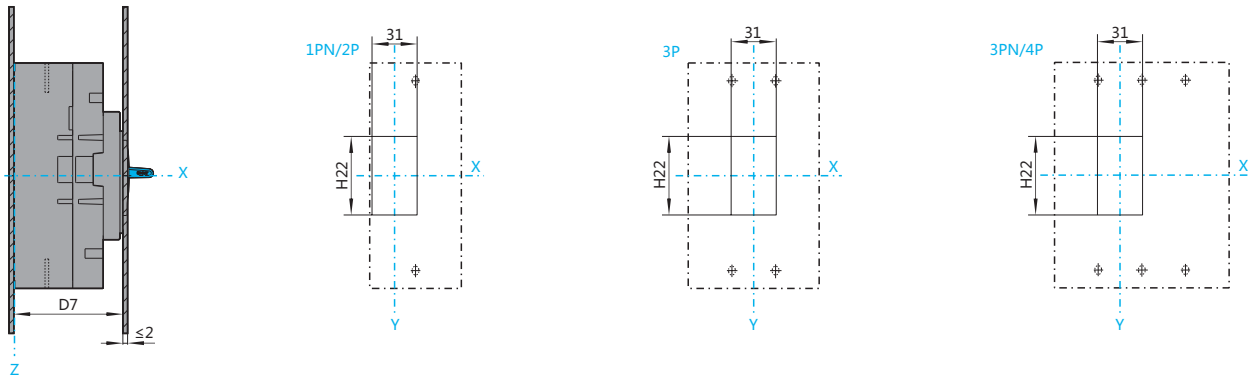


Specification and model	H16	H18	H20	H21	Remark
NXM-160E/S/F/H	72	135	106	167	3P/4P
NXMS-160F/H	72	135	106	167	3P/4P
NXMLE-160S/F/H	77	140	111	172	3P/3PN/4P
NXHM-160	72	135	106	167	3P/4P

Dimensions and installation

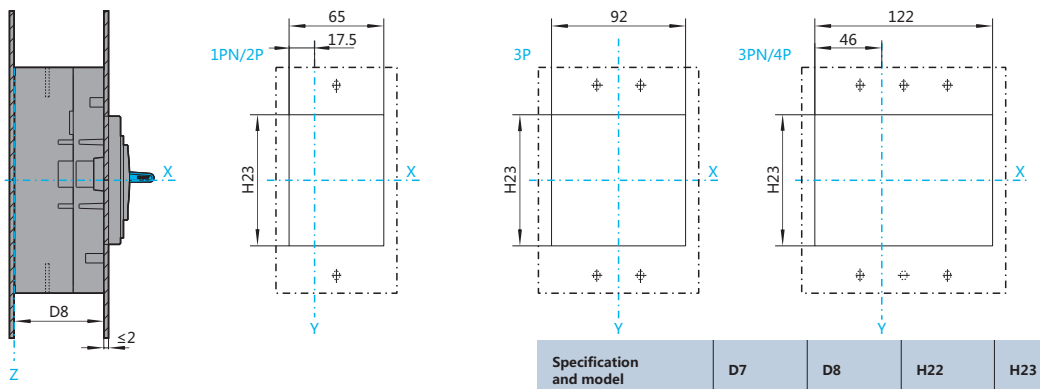
NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H
NXHM-160

Cabinet gate hole (small) size (mm)



NXM-160E/S/F/H, NXMS-160F/H, NXMLE-160S/F/H,
NXHM-160

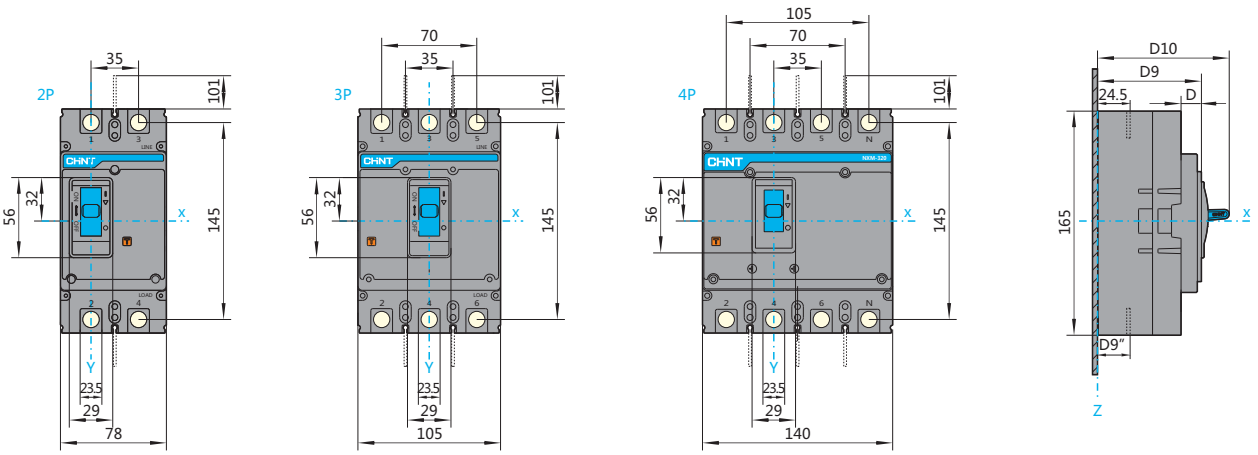
Cabinet gate hole (large) size (mm)



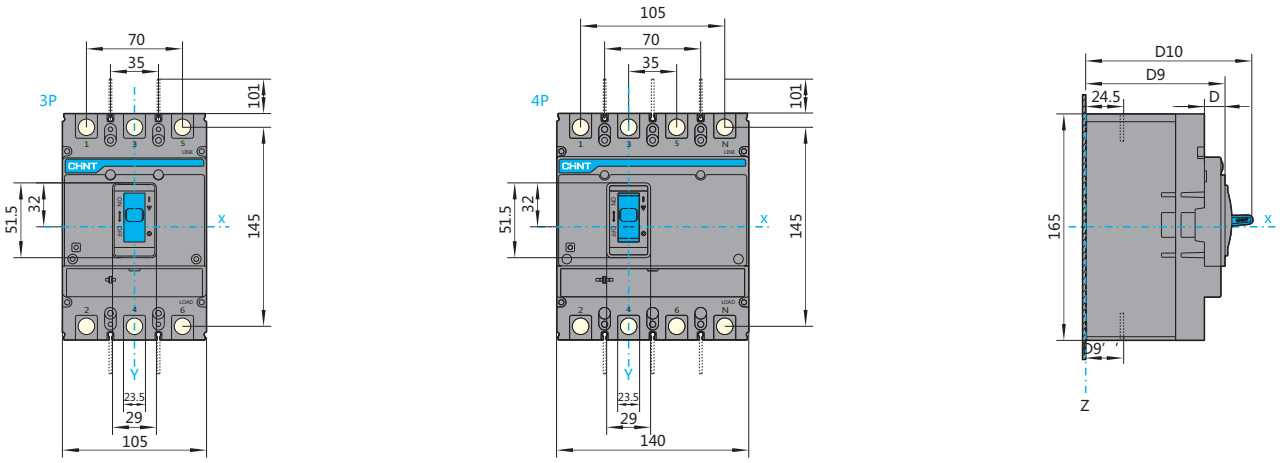
Specification and model	D7	D8	H22	H23	Remark
NXM-160E/S	75	61.5	54	90	2P/3P/4P
NXM-160F/H	90.5	77	54	90	3P/4P
NXMS-160F/H	90.5	77	48	92	3P/4P
NXMLE-160S	75	61.5	54	95	1PN/2P/3P/3PN/4P
NXMLE-160F/H	90.5	77	54	95	3P/3PN/4P
NXHM-160	90.5	77	54	90	3P/4P

NXM-250E/S/F/H, NXHM-250, 320

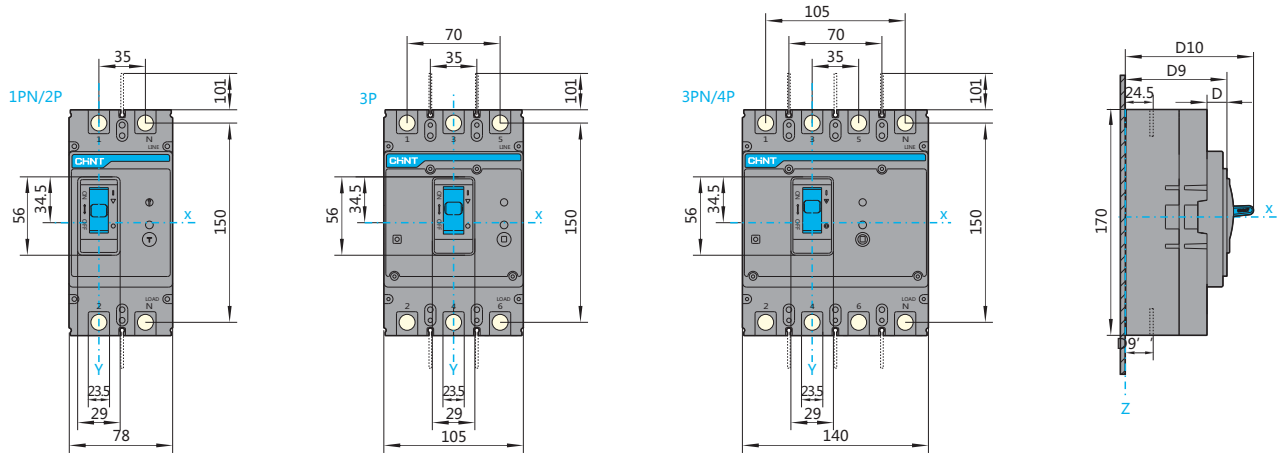
Front connection, dimension (mm)



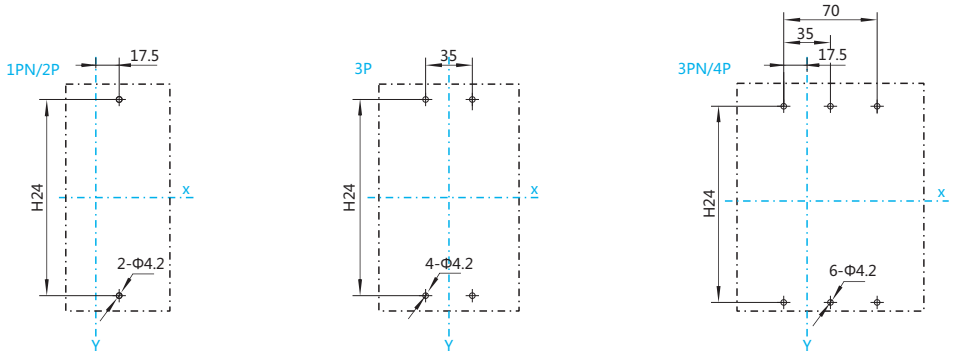
NXMS-250F/H — Front connection, dimension (mm)



NXMLE-250S/F/H — Front connection, dimension (mm)



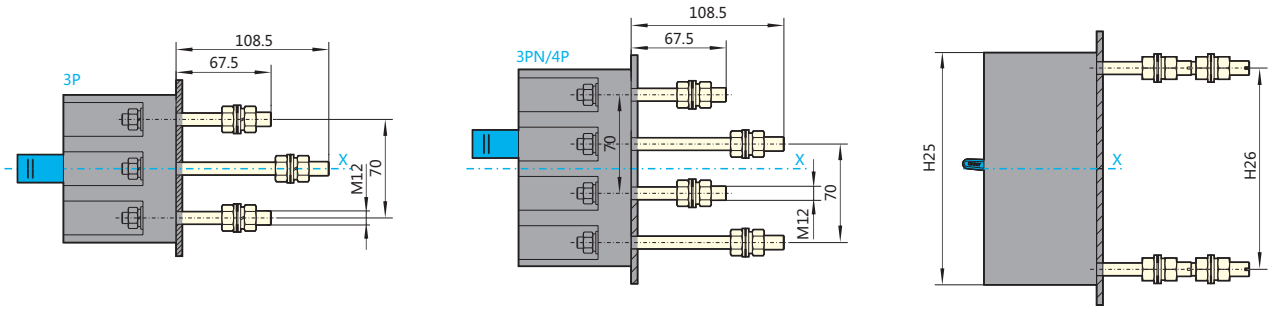
NXM-250E/S/F/H, NXMS-250F/H,NXMLE-250S/F/H, NXHM-250, 320 — Front-panel wiring, installation size (mm)



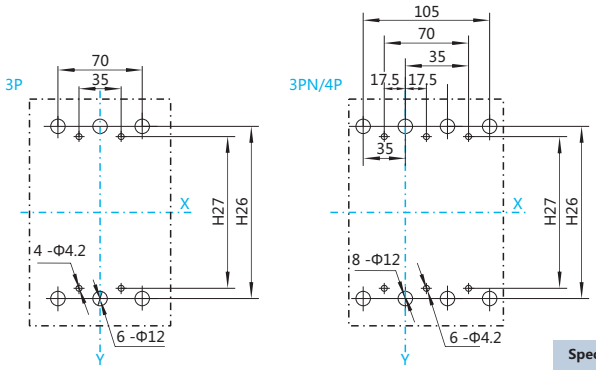
Specification and model	D9	D9''			D10	D	H24			Remark	
		125/160A	180/200A	225/250A			1PN/2P	3P	3PN/4P		
NXM-250E/S	76.5	23.5	23.5	23.5	97	15	126	126	126	2P/3P/4P	98
NXM-250F/H	76.5	23.5	24.5	24.5	123	15	-	126	126	3P/4P	123
NXMS-250F/H	76.5	24.5			123	15	-	126	126	3P/4P	123
NXMLE-250S	76.5	24.5			98	15	131	131	131	1PN/2P/3PN/4P	98
NXMLE-250F/H	76.5	24.5			101	15	-	131	131	3P/3PN/4P	101
NXHM-250, 320	76.5	24.5			122	15	-	126	126	3P/4P	122

Dimensions and installation

NXM-250E/S/F/H, NXMS-250F/H, NXMLE-250S/F/H, NXHM-250, 320 — **Installation size of baseplate (mm)**

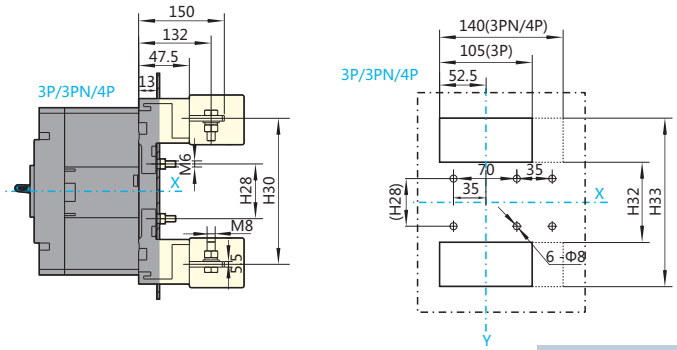


NXM-250E/S/F/H, NXMS-250F/H, NXMLE-250S/F/H, NXHM-250, 320 — **Installation size of baseplate (mm)**



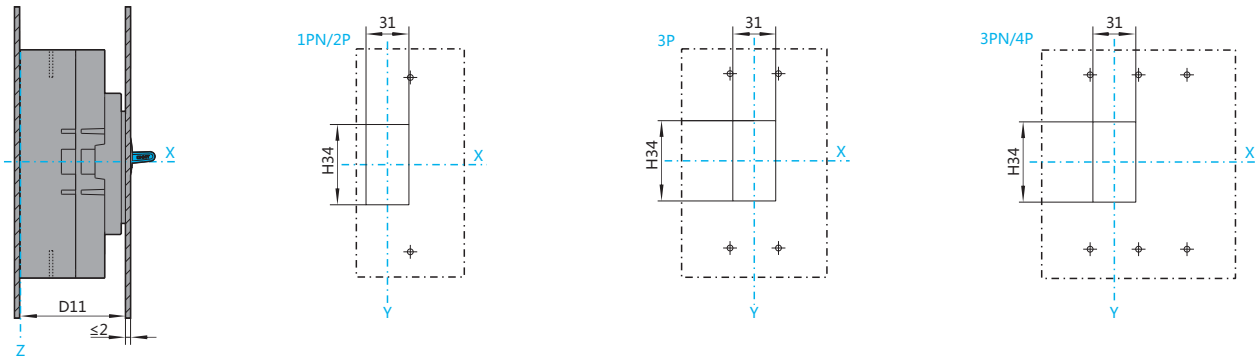
Specification and model	H25	H26	H27	Remark
NXM-250E/S/F/H,	165	145	126	3P/4P
NXMS-250F/H	165	145	126	3P/4P
NXMLE-250S/F/H	170	150	131	3P/3PN/4P
NXHM-250, 320	165	145	126	3P/4P

NXM-250E/S/F/H, NXMS-250F/H, NXMLE-250S/F/H, NXHM-250, 320 — **Plug-in rear connection, dimension (mm)**

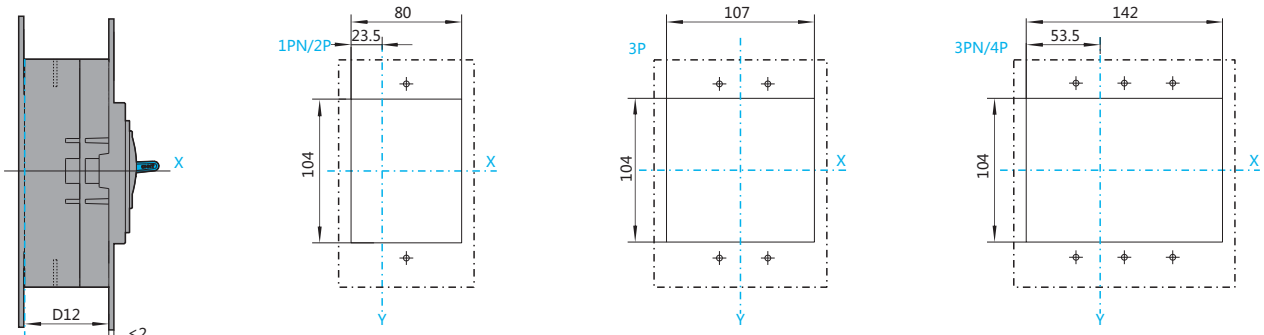


Specification and model	H28	H30	H32	H33	Remark
NXM-250E/S/F/H	74	145	108	180	3P/4P
NXMS-250F/H	74	145	108	180	3P/4P
NXMLE-250S/F/H	79	144	113	185	3P/3PN/4P
NXHM-250, 320	74	139	108	180	3P/4P

NXM-250E/S/F/H, NXMS-250F/H, NXMLE-250S/F/H, NXHM-250, 320 — **Cabinet gate hole (small) size (mm)**

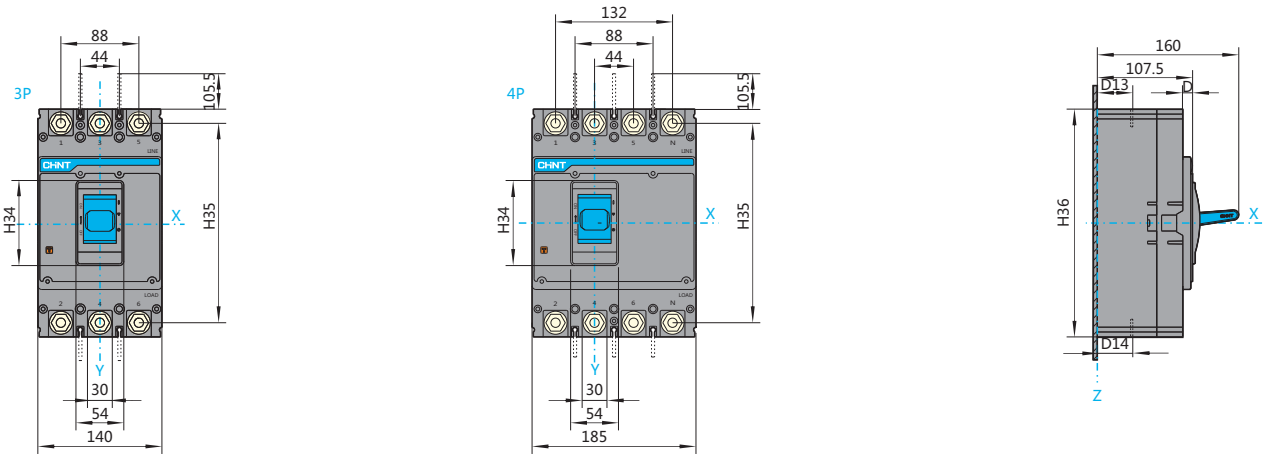


NXM-250E/S/F/H, NXMS-250F/H, NXMLE-250S/F/H, NXHM-250, 320 — **Cabinet gate hole (large) size (mm)**



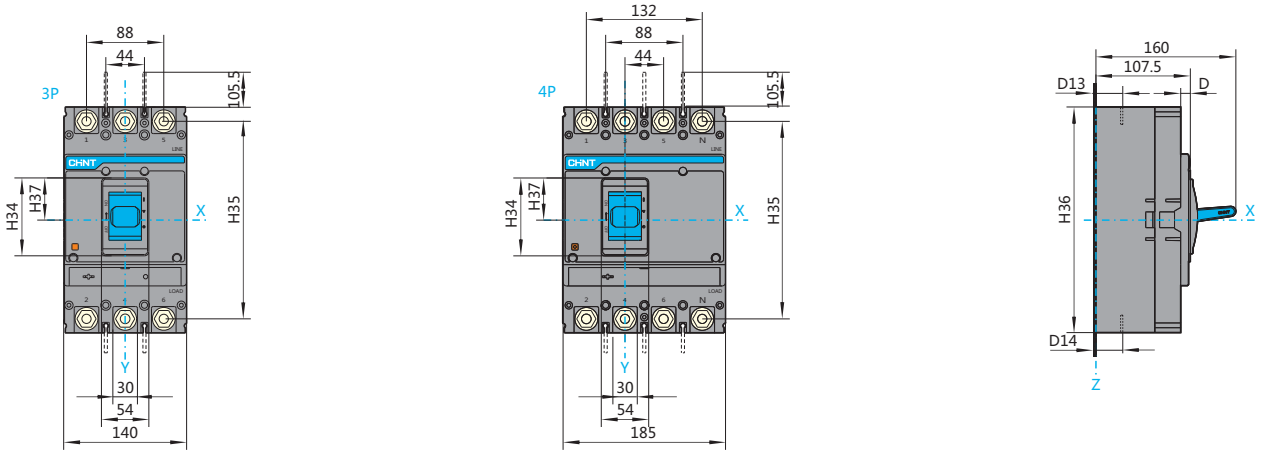
Specification and model	H34	D11	D12	Remark
NXM-250E/S	59	76.5	61.5	2P/3P/4P
NXM-250F/H	59	101.5	86.5	3P/4P
NXMS-250F/H	54.5	101.5	86.5	3P/4P
NXMLE-250S	59	76.5	61.5	1PN/2P/3P/3PN/4P
NXMLE-250F/H	59	79.5	64.5	3P/3PN/4P
NXHM-250, 320	59	76.5	61.5	3P/4P

NXM-400E/S/F/H, 630E/S/F/H, NXHM-400, 630 — **Front connection, dimension (mm)**

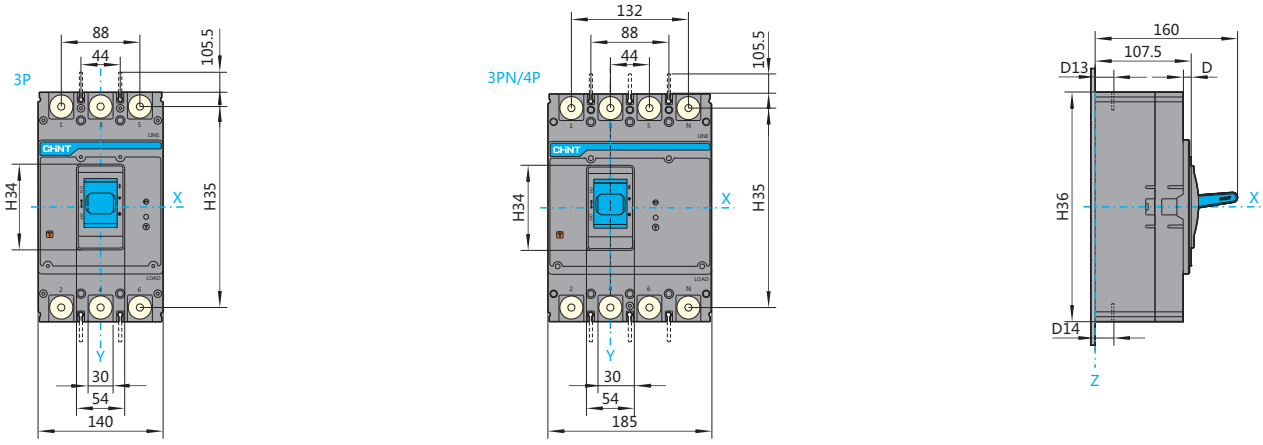


Dimensions and installation

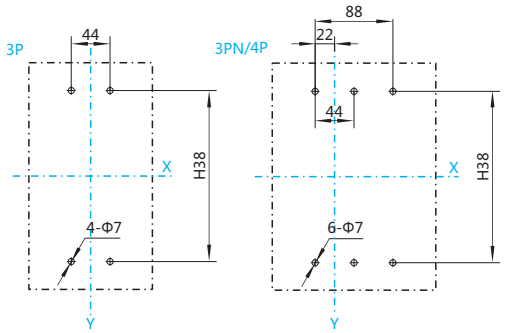
NXMS-400S/F/H, 630S/F/H — Front connection, dimension (mm)



NXMLE-400S/F/H, 630S/F/H — Front connection, dimension (mm)



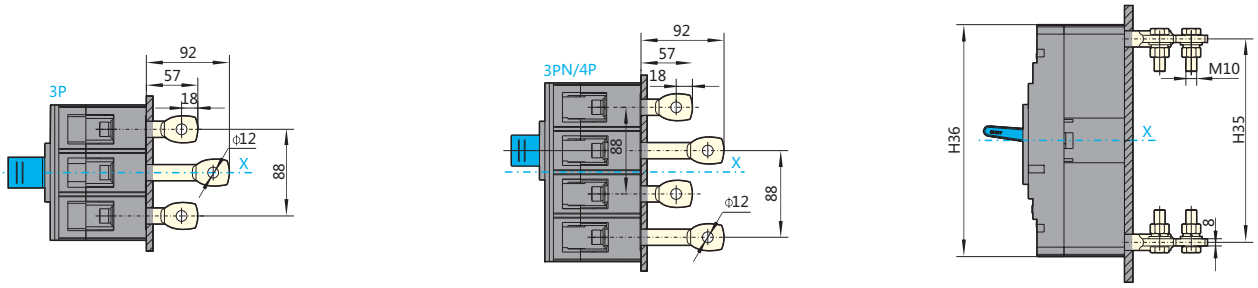
NXM-400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630 — Installation size of baseplate (mm)



Specification and model	H34	H35	H36	H37	H38	D13	D14	D	Remark
NXM-400E/S/F/H NXM-630E/S/F/H	96	225	257	48	194	39	37	11	250A-280A
						40	36.8		300A-315A-320A
							37		350A-380A
							37.5		400A-450A
						41	38.5		500A-550A
							40		600A-630A
NXMS-400S/F/H NXMS-630S/F/H	89	225	257	48	194	40	37.5	11	400A
						41	41		630A
NXMLE-400S/F/H NXMLE-630S/F/H	96	235	267	53	228	39	38	11	250A-280A
						40	36.8		300A-315A-320A
							37		350A-380A
							38		400A-450A
						41	39		500A-550A
							40		600A-630A
NXHM-400 NXHM-630	96	225	257	48	194	40	37.5	11	400A
						41	40		630A

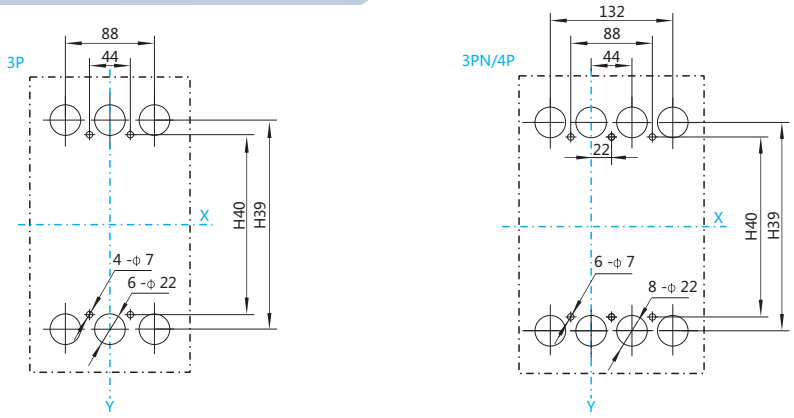
NXM-400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630

Rear connection, dimension (mm)



NXM-400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630

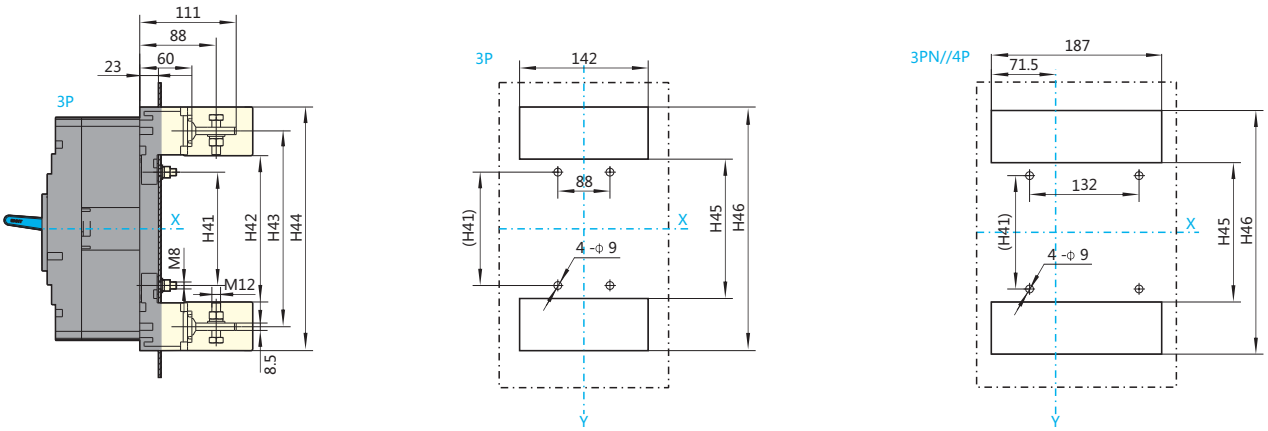
Installation size of baseplate (mm)



Specification and model	H39	H40	Remark
NXM-400E/S/F/H , 630E/S/F/H	225	194	3P/4P
NXMS-400S/F/H , 630S/F/H	225	194	3P/4P
NXMLE-400S/F/H	235	228	3P/3PN/4P
NXMLE-630S/F/H	235	228	3P/3PN/4P
NXHM-400 , 630	225	194	3P/4P

NXM- 400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630

Plug-in rear connection, dimension (mm)

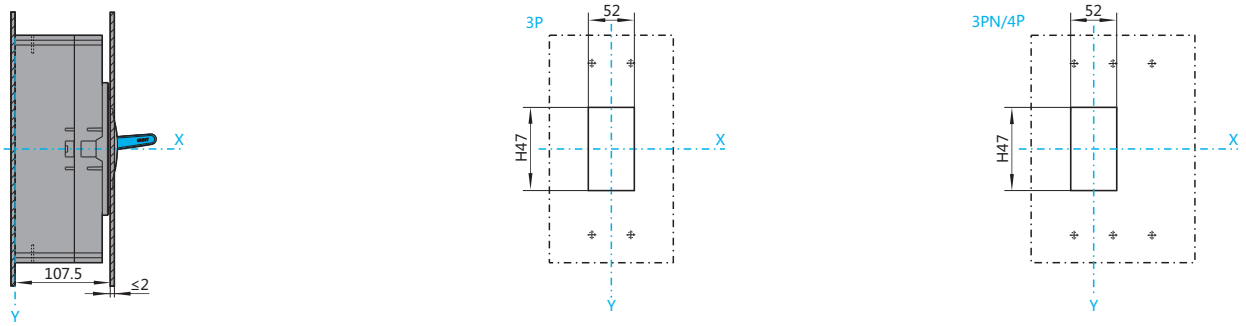


Specification and model	H41	H42	H43	H44	H45	H46	Remark
NXM-400E/S/F/H, 630E/S/F/H	145	171	225	281	168	283	3P/4P
NXMS-400S/F/H, 630S/F/H	145	171	225	281	168	283	3P/4P
NXMLE-400S/F/H	155	181	235	291	178	293	3P/3PN/4P
NXMLE-630S/F/H	155	181	235	291	178	293	3P/3PN/4P
NXHM-400, 630	145	171	225	281	168	283	3P/4P

Dimensions and installation

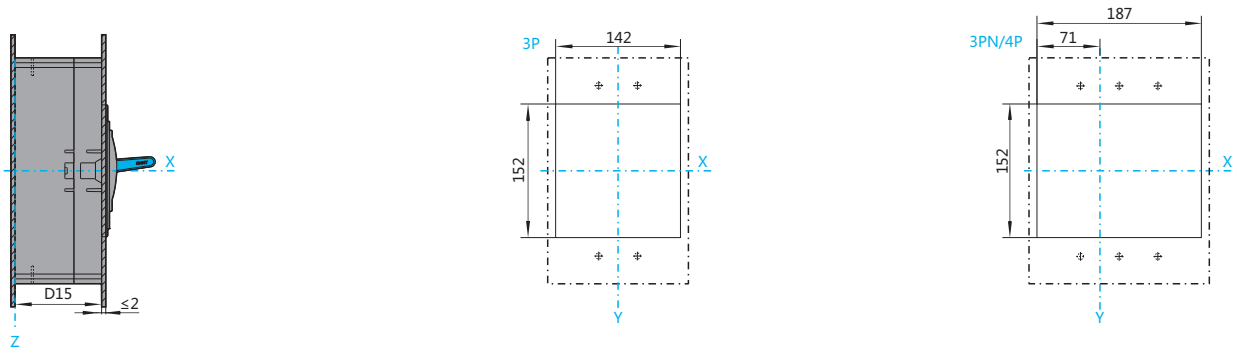
NXM-400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630

Cabinet gate hole (small) size (mm)



NXM-400E/S/F/H, 630E/S/F/H, NXMS-400E/F/H, 630E/F/H, NXMLE-400S/F/H, 630S/F/H, NXHM-400, 630

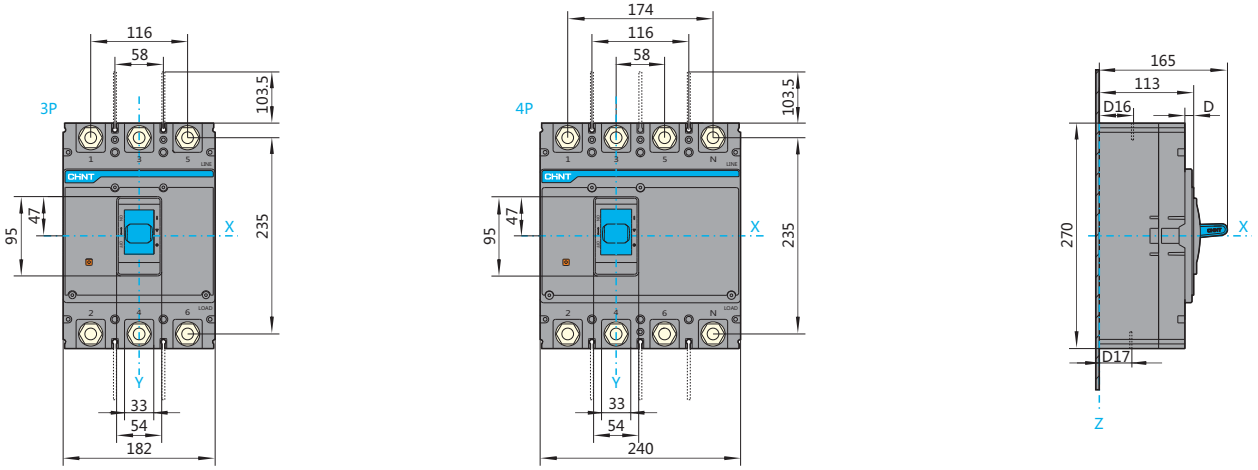
Cabinet gate hole (large) size (mm)



Specification and model	H47	D15	Remark
NXM-400E/S/F/H, 630E/S/F/H	94	96.5	3P/4P
NXMS-400S/F/H, 630S/F/H	87	96.5	3P/4P
NXMLE-400S/F/H, 630S/F/H	94	98.5	3P/3PN/4P
NXHM-400, 630	94	96.5	3P/4P

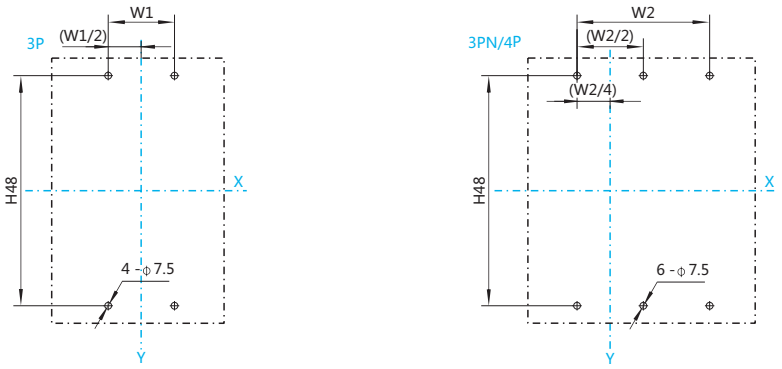
NXM-800S/F/H, NXHM-800

Front connection, dimension (mm)



NXM-800S/F/H, NXHM-800

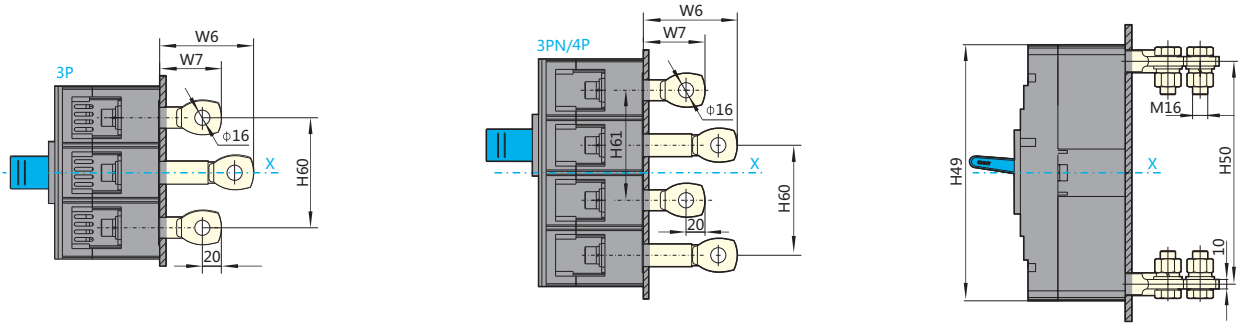
Installation size of baseplate(mm)



Specification and model	D16	D17	D	H48	W1	W2	Remark
NXM-800S/F/H NXHM-800	43	41	10.5	200	58	116	630A
	44	42	10.5	200	58	116	700A
	45	43	10.5	200	58	116	800A

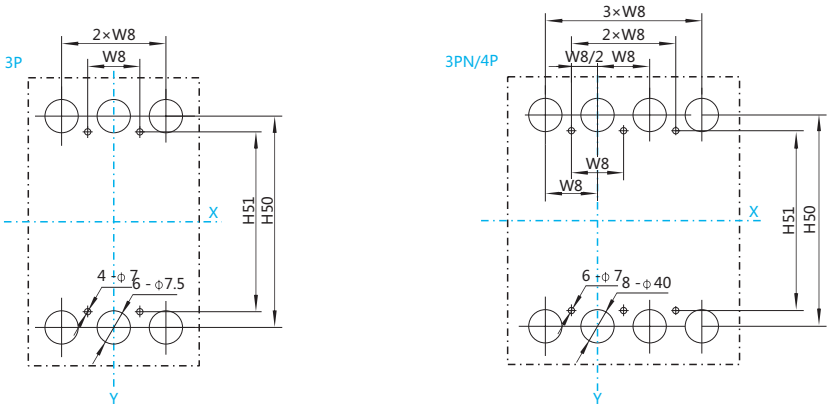
NXM-800S/F/H, NXHM-800

Rear connection, dimension (mm)



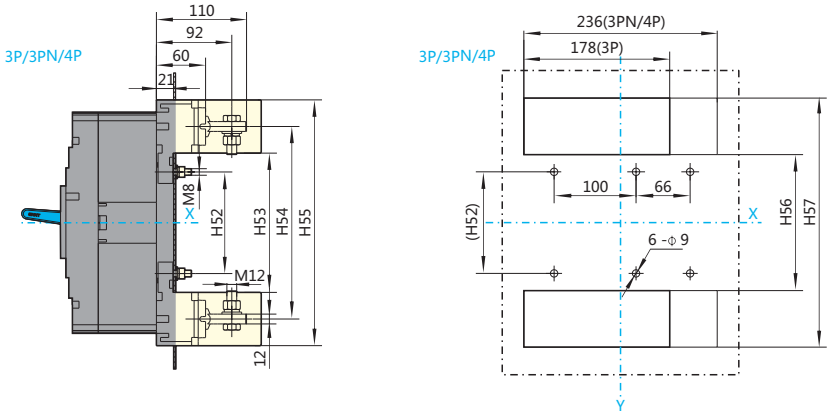
Dimensions and installation

NXM-800S/F/H, NXHM-800 — Rear connection, dimension(mm)



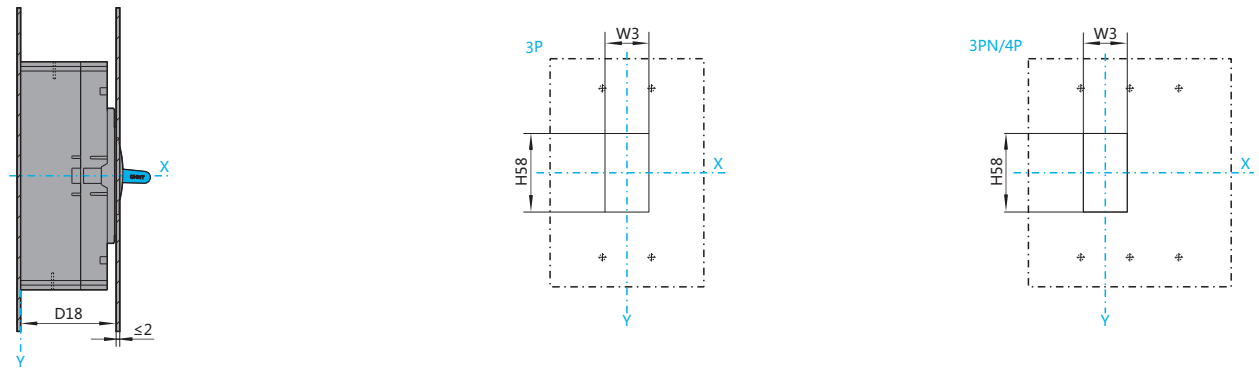
Specification and model	W6	W7	W8	H49	H50	H51	H60
NXM-800S/F/H	99	67	58	270	235	200	116
NXHM-800	99	67	58	270	235	200	116

NXM-800S/F/H, NXHM-800 — Plug-in rear connection, dimension (mm)



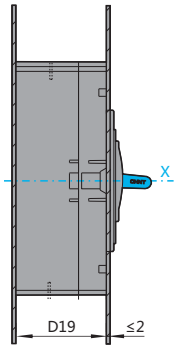
Specification and model	H52	H53	H54	H55	H56	H57	Remark
NXM-800S/F/H	124	170	235	300	168	302	3P/4P
NXHM-800	124	170	235	300	168	302	3P/4P

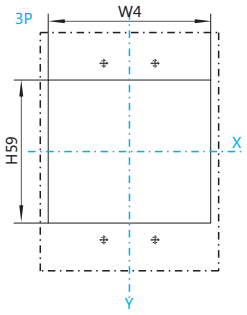
NXM-800S/F/H, NXHM-800 — Cabinet gate hole (small) size (mm)

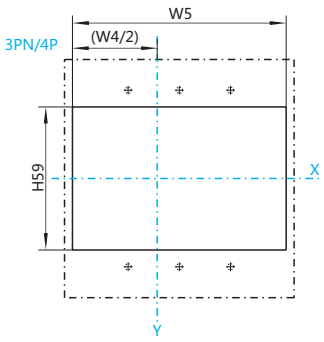


NXM-800S/F/H, NXHM-800

Cabinet gate hole (large) size (mm)



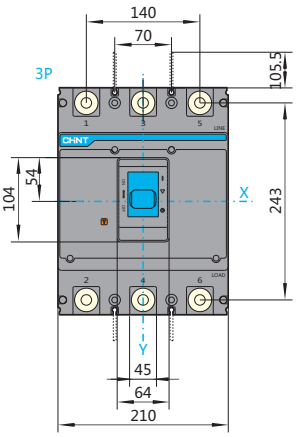


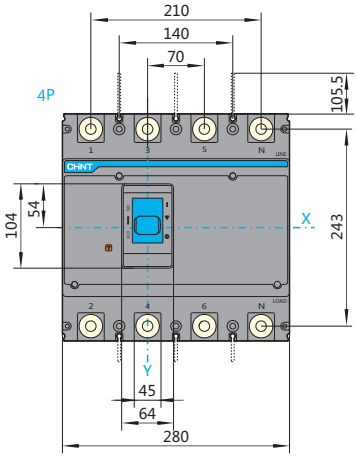


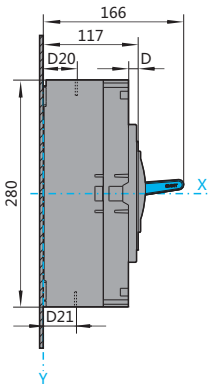
Specification and model	D18	D19	H58	W3	H59	W4	W5	Remark
NXM-800S/F/H	113	102.5	95	54	162	184	242	3P/4P
NXHM-800	113	102.5	95	54	162	184	242	3P/4P

NXM-1000S/H, NXHM-1000

Front connection, dimension (mm)

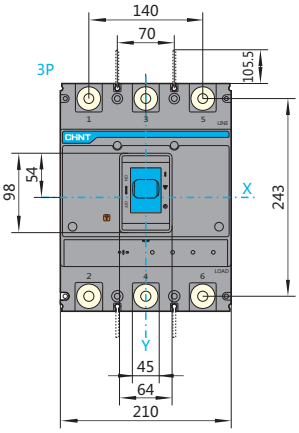


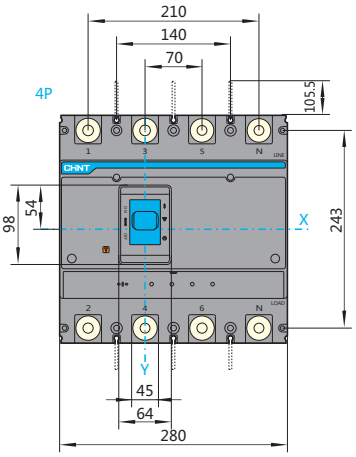


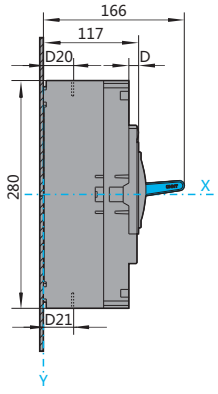


NXMS-1000S/H

Front connection, dimension (mm)



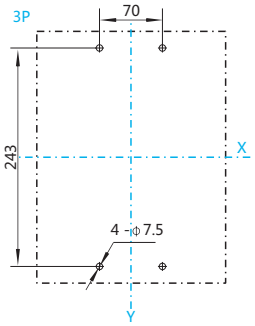


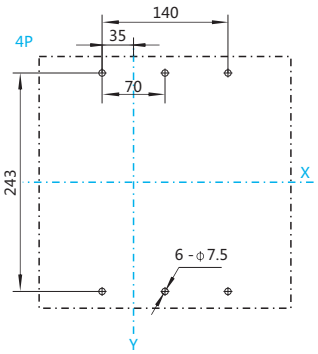


Dimensions and installation

NXM-1000S/H, NXMS-1000S/H, NXHM-1000

Installation size of baseplate (mm)

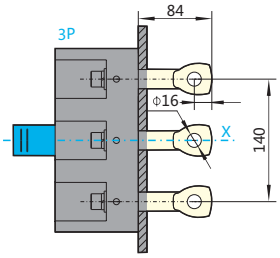


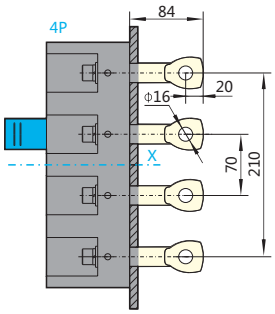


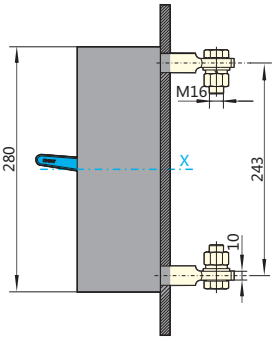
Specification and model	D20	D21	D	Remark
NXM-1000S/H	41	41	12	800A
NXHM-1000	43	42	12	1000A
NXMS-1000S/H	43	43	12	800/1000A

NXM-1000S/H, NXMS-1000S/H, NXHM-1000

Rear connection, dimension (mm)

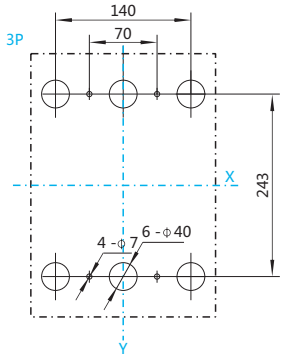


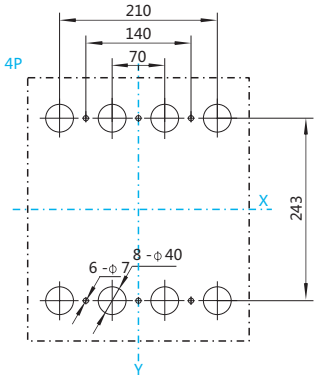




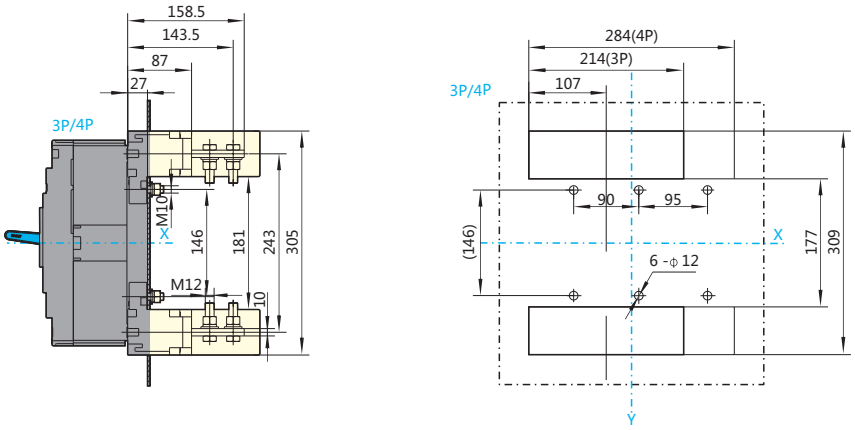
NXM-1000S/H, NXMS-1000S/H, NXHM-1000

Rear connection, dimension (mm)

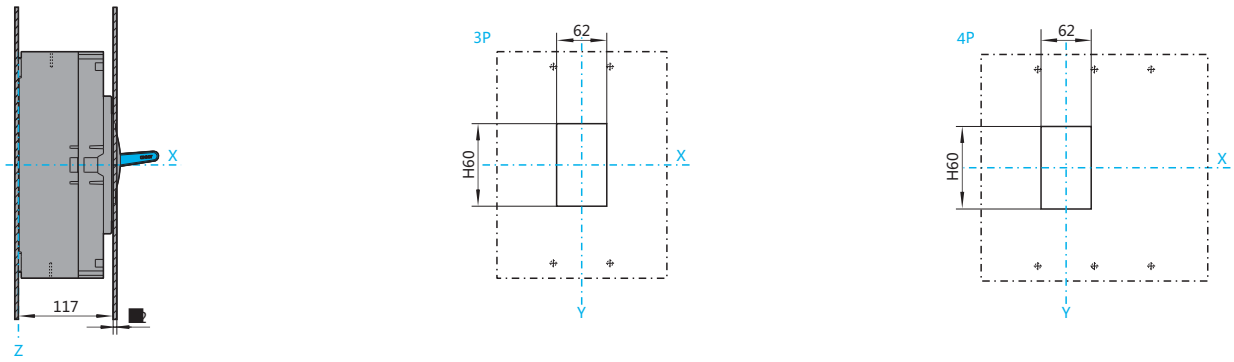




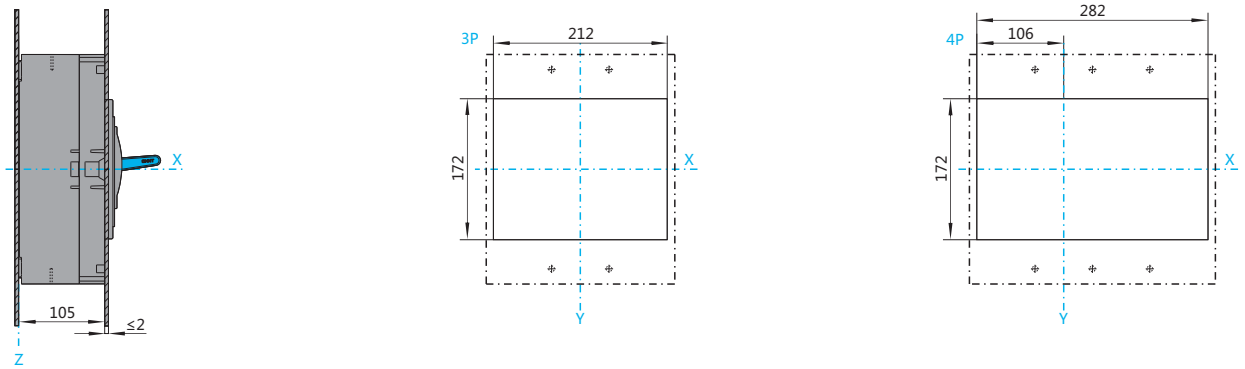
NXM-1000S/H, NXMS-1000S/H, NXHM-1000 — **Plug-in rear connection, dimension (mm)**



NXM-1000S/H, NXMS-1000S/H, NXHM-1000 — **Cabinet gate hole (small) size (mm)**



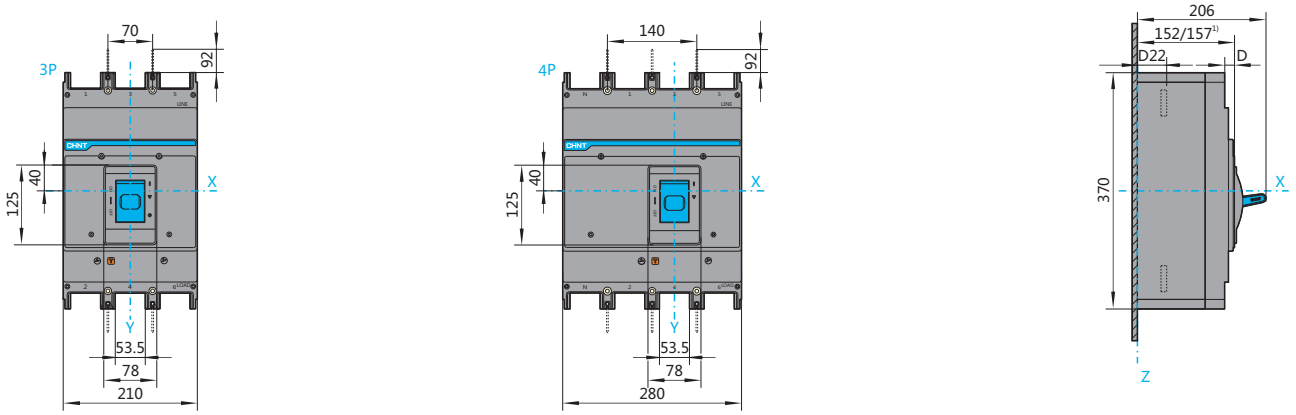
NXM-1000S/H, NXMS-1000S/H, NXHM-1000 — **Cabinet gate hole (large) size (mm)**



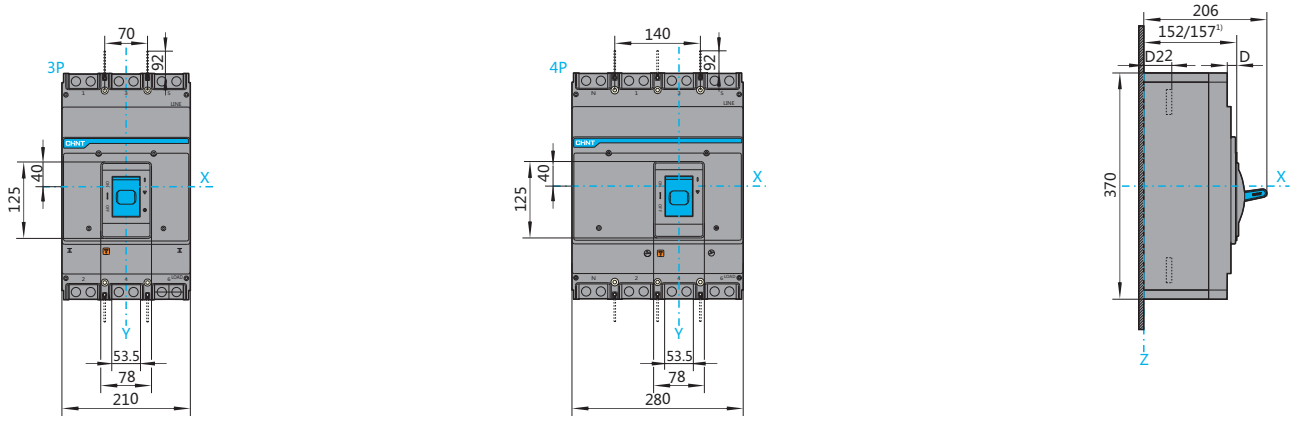
Specification and model	H60	Remark
NXM-1000S/H	102	3P/4P
NXMS-1000S/H	95	3P/4P
NXHM-1000	102	3P/4P

Dimensions and installation

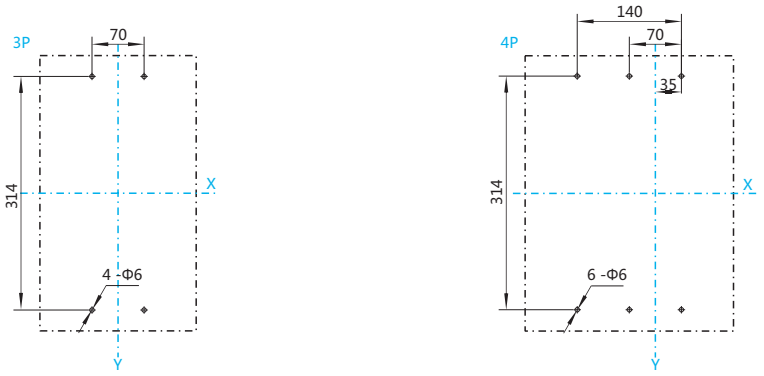
NXM-1250S/H,1600S/H — Front connection, dimension (mm)



NXMS-1250S/H,1600S/H — Front connection, dimension (mm)



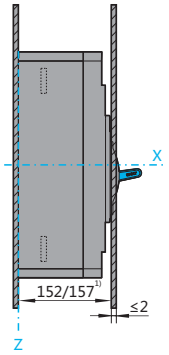
NXM-1250S/H,1600S/H , NXMS-1250S/H,1600S/H — Installation size of baseplate (mm)

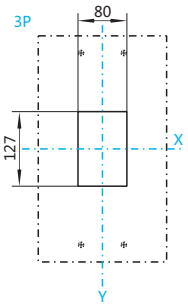


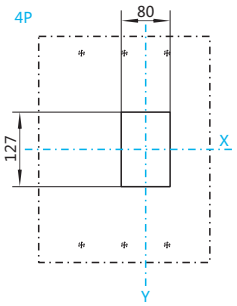
Specification and model	D22	D	Remark
NXM-1250S/H,1600S/H	55	15.5	1000A
	57		1250A
	65		1600A
NXMS-1250S/H,1600S/H	57	15.5	1250A
	65		1600A

NXM-1250S/H,1600S/H，NXMS-1250S/H,1600S/H

Cabinet gate hole (small) size (mm)



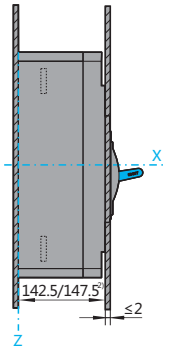


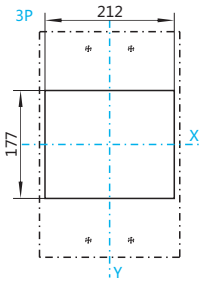


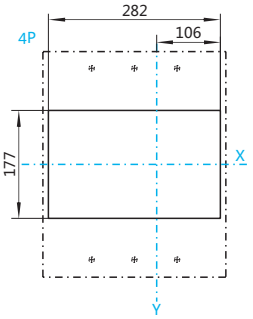
[1]152 is for frame current 1250A breaker;
157 is for frame current 1600A breaker

NXM-1600S/H, NXMS-1600S/H/, NXHM-1600

Cabinet gate hole (large) size (mm)



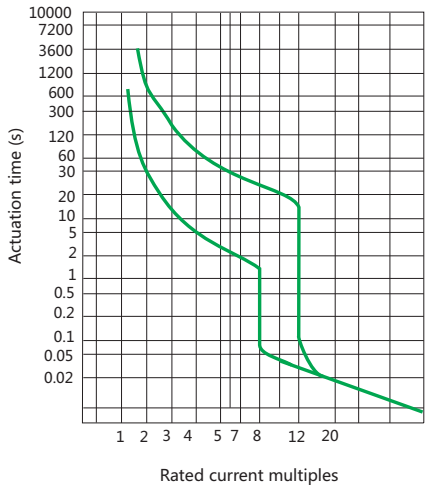




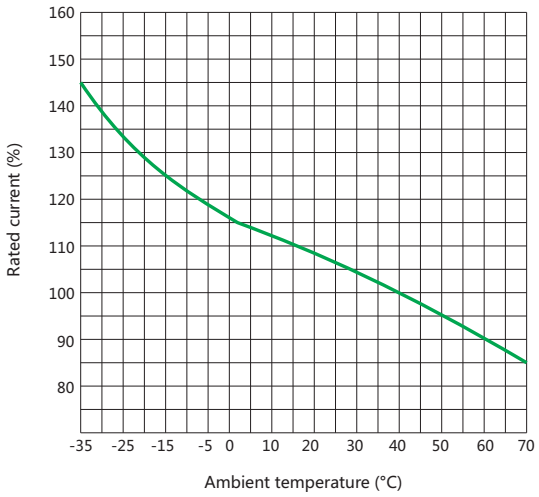
[2]152 is for frame current 1250A breaker;
157 is for frame current 1600A breaker

Tripping curves

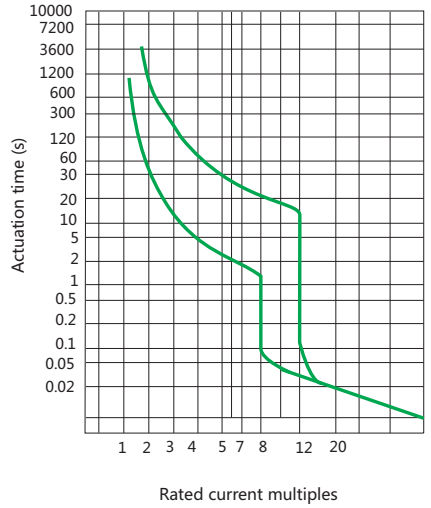
NXM-63 — Tripping curve



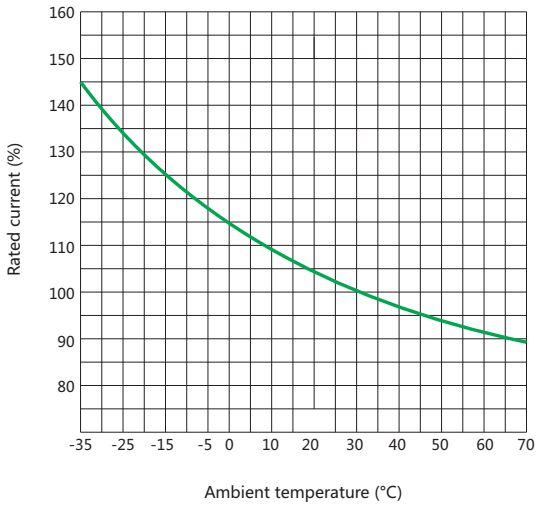
NXM-63 — Temperature compensation curve



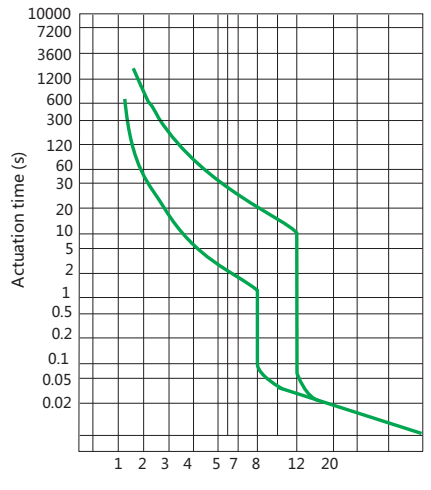
NXM-125, NXMLE-125 — Tripping curve



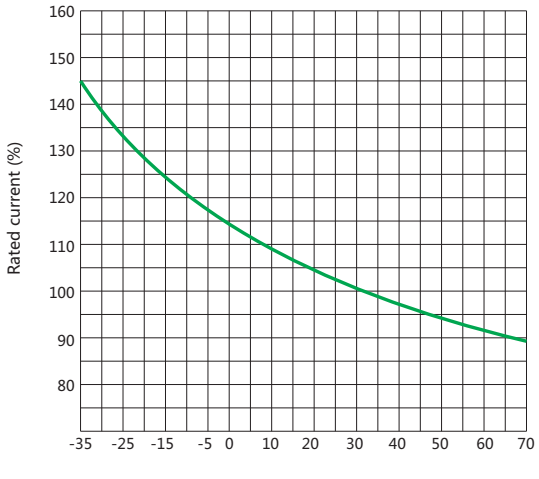
NXM-125, NXMLE-125 — Temperature compensation curve



NXM-160, NXMLE-160 — Tripping curve

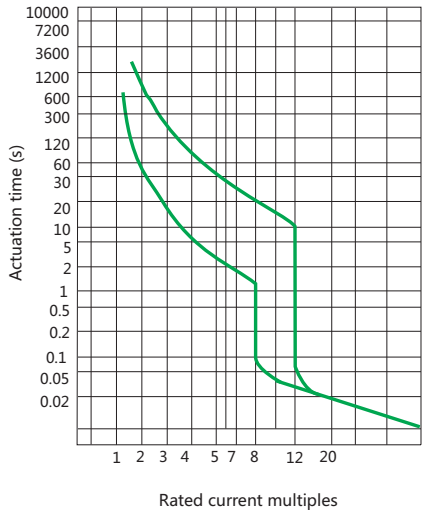


NXM-160, NXMLE-160 — Temperature compensation curve

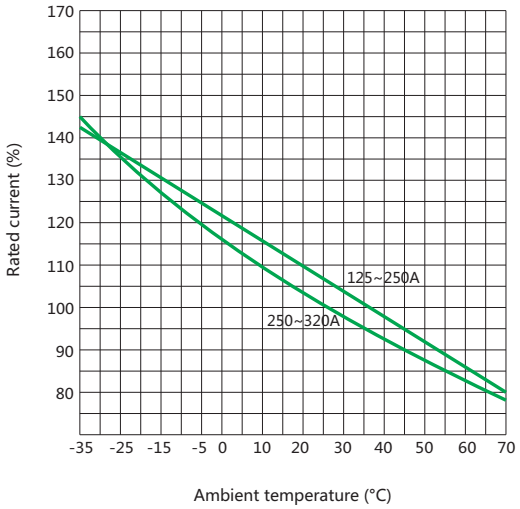


Tripping curves

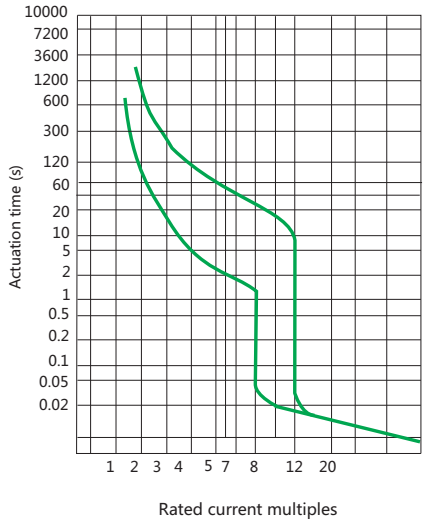
NXM-250, NXMLE-250 — **Tripping curve**



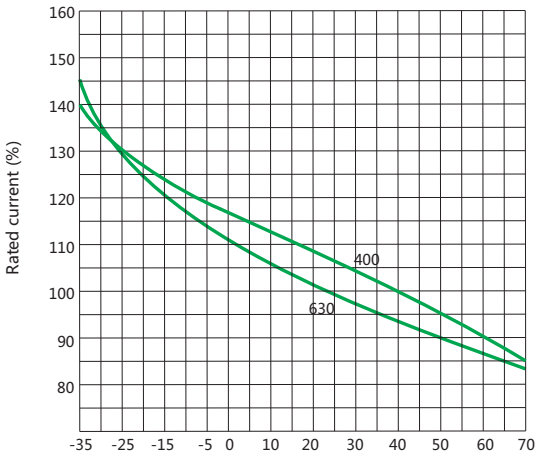
NXM-250, NXMLE-250 — **Temperature compensation curve**



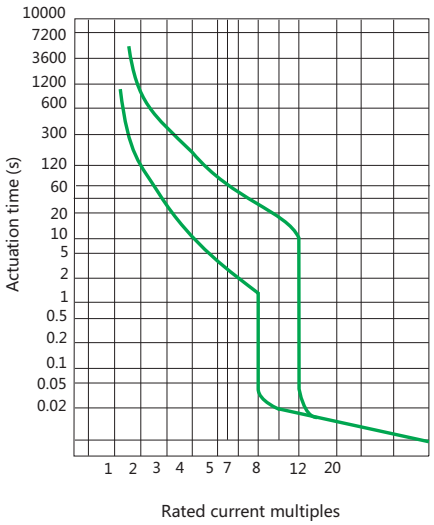
NXM-400/630, NXMLE-400/630 — **Tripping curve**



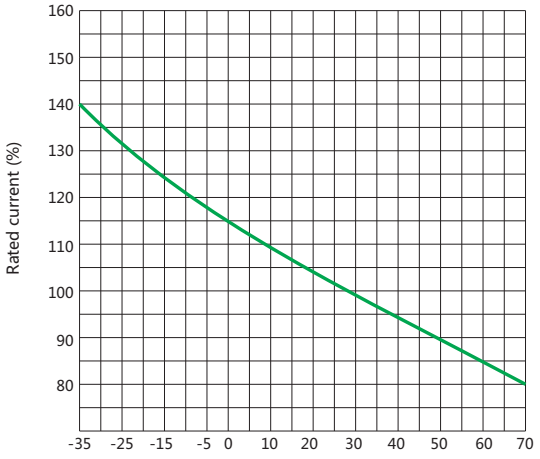
NXM-400/630, NXMLE-400/630 — **Temperature compensation curve**



NXM-800 — **Tripping curve**

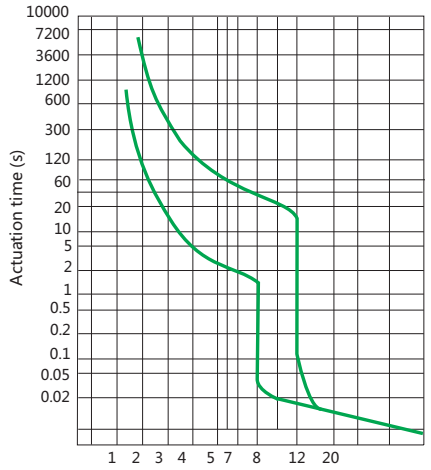


NXM-800 — **Temperature compensation curve**

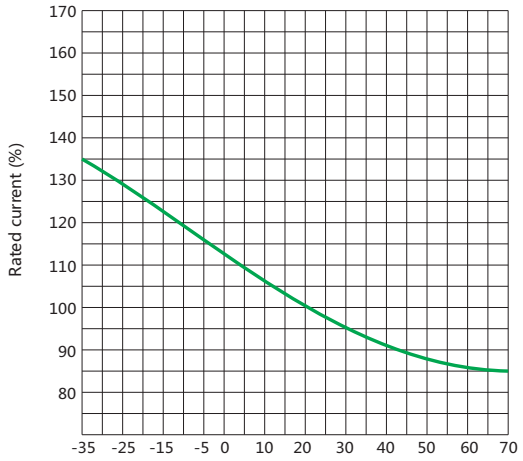


Tripping curves

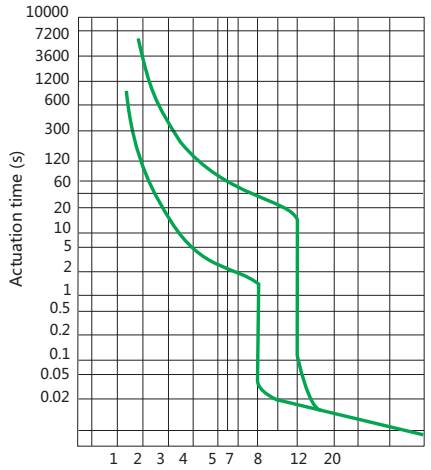
NXM-1000 — Tripping curve



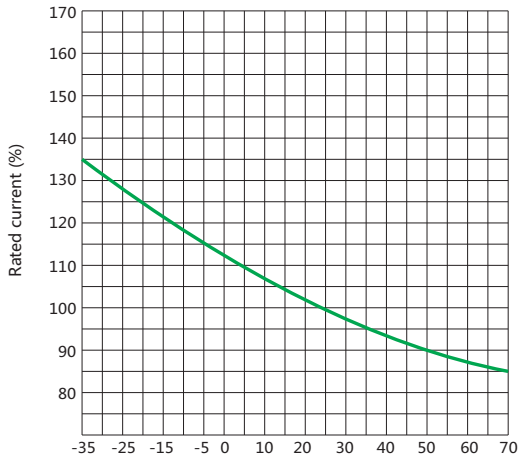
NXM-1000 — Temperature compensation curve



NXM-1250,1600 — Tripping curve

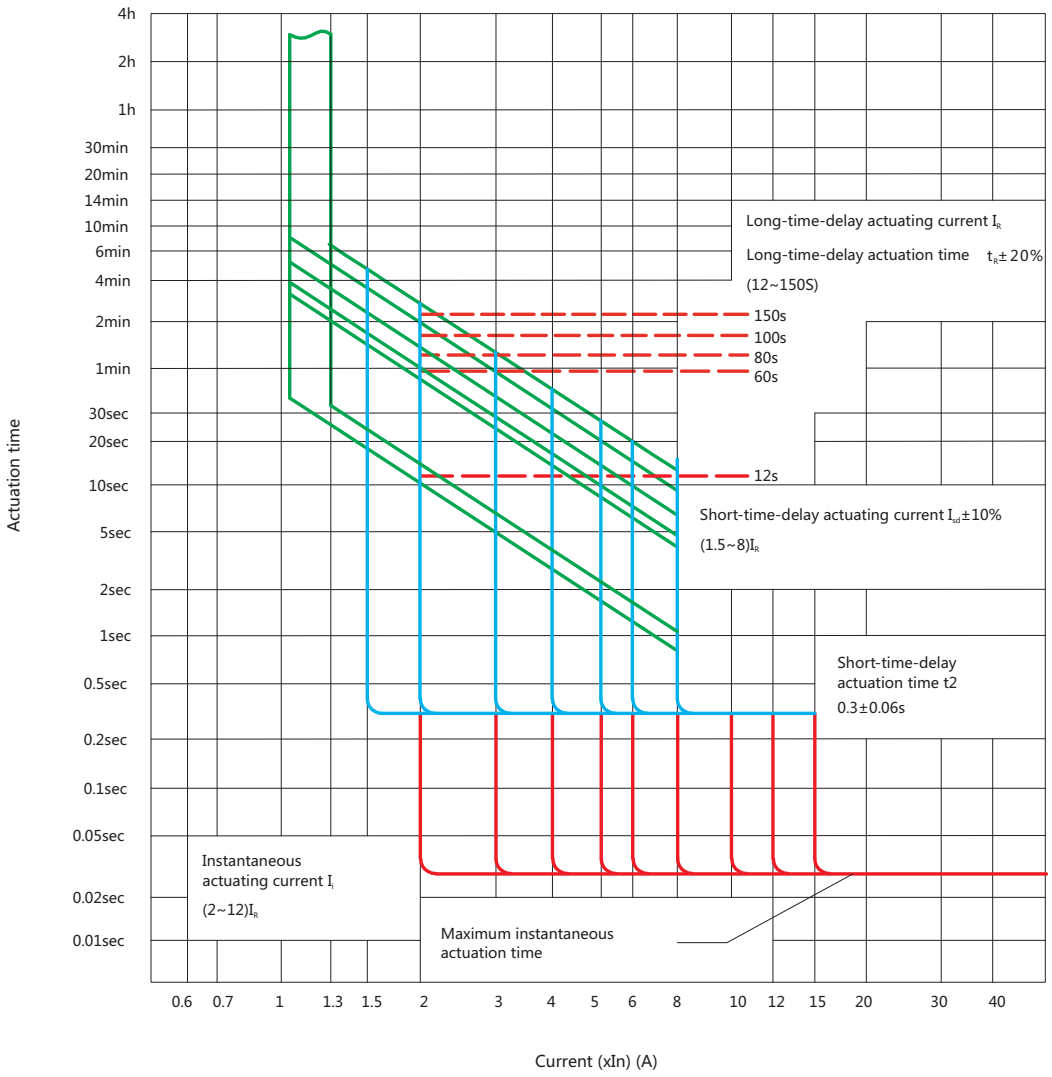


NXM-1250,1600 — Temperature compensation curve



NXMS series electronic moulded case circuit breaker

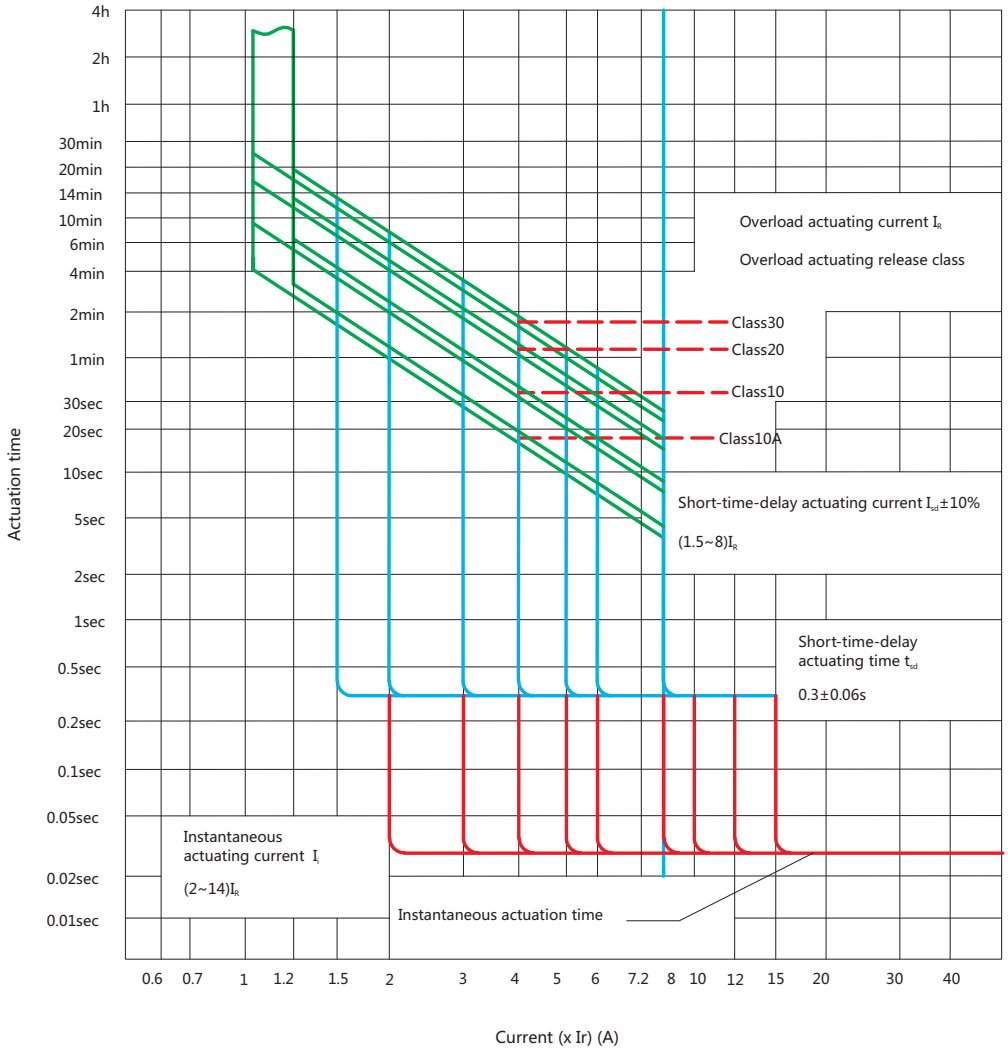
Tripping curve of distribution protection



Tripping curves

NXMS series electronic moulded case circuit breaker

Tripping curve of motor protection



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