

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.

Moulded Case Circuit Breaker

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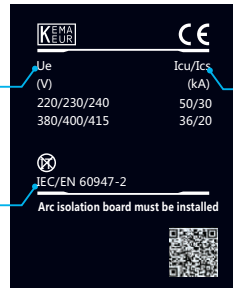
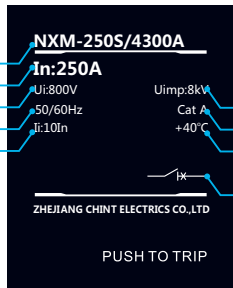
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NXM-250S/4300A



NXMS-250H/3300



NXM Nameplate of thermomagnetic stationary molded case circuit breaker

NXM series moulded case circuit breaker

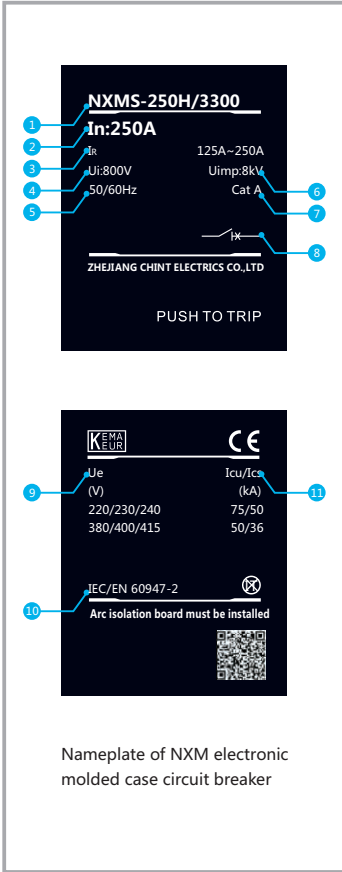
Breaker

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 : 220V/230V/240V, 380V/400V/415V, 500V , 690V
- 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

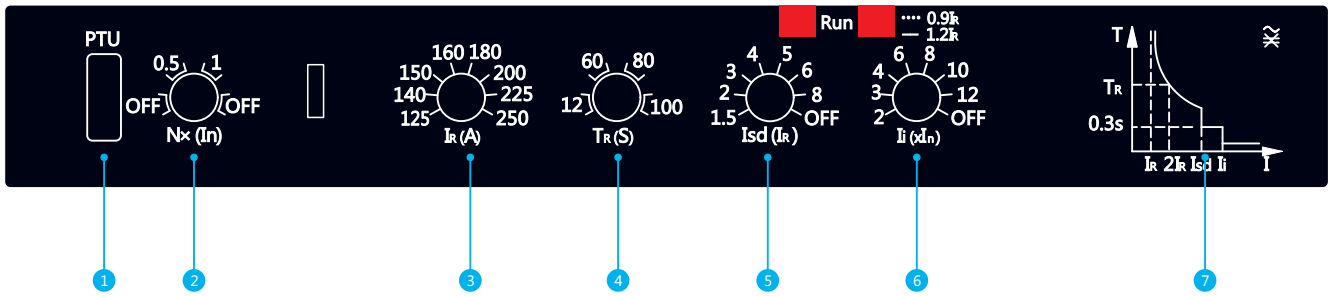
- 1 Product type: Frame size; breaking capacity; poles number
- 2 In: Rated operational current
- 3 Ui: Rated insulation voltage
- 4 Frequency of A.C.
- 5 Ii: 10In Multiple of current of transient behavior
- 6 Uimp: Rated impulsive withstand voltage
- 7 Cat A: Utilization category of breaker
- 8 +40°C: 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 Ir: 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



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	E: 15kA S: 25kA F: 36kA H: 50kA	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
		125A					
		160A	E: 20kA S: 36kA F: 36kA H: 50kA				
		250A					
		400A	E: 36kA S: 50kA F: 50kA H: 70kA				
		630A					
		800A	S: 50kA F: 50kA H: 70kA				
		1000A					
		1250A	S: 50kA H: 70kA				
		1600A					

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

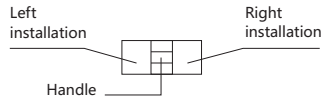
Rated current (A)	10	15	16	20	25	30	32	40	50	60	63	65	70	75	80	90	100	110	125	140	150	160	
Frame size (A)	63	■	■	■	■	■	■	■	■	■	■												
	125		■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■				
	160				■	■	■	■	■	■	■		■	■	■	■	■	■	■	■	■	■	■
	250																						■
	400																						
	630																						
	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
Code of breaking capacity	E	■	■	■	■	■	■	■	■
	S	■	■	■	■	■	■	■	■
	F	-	■	■	-	■	■	-	■
	H	-	■	■	-	■	■	-	■

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	○ ■ □	○ ■ □	○ ■ □	○ ■ □

Technical Parameters

NXM series moulded case circuit breaker

Frame Size, rated current In (A)		63				125				160				250							
Rated current In (A), 40°C, 55°C		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/EN 60947-2																			
Utilization category		A				A				A				A							
Isolation function		■				■				■				■							
Ambient temperature		-35°C~+70°C																			
Arcing distance		≤50				≤50				≤50				≤50							
Mechanical life (times)	Without maintenance	20000				20000				20000				20000							
	With maintenance	40000				40000				40000				40000							
Electrical life (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	■	■			■	■			■	■			■	■					
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 (2P/3P/4P)				56/78/103				56/78/103				63/90/120				78/105/140			
Width (w) X height (H)X depth(D)		Height				135				135				155				165			
		Depth (E/S/F/H type)				71/71/81/81				71/71/81/81				75.5/75.5/91/91				77/77/102/102			

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_s (A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	$10I_n, \pm 20\%$	Instantaneous action
	125	10~125	Fixed	$10I_n, \pm 20\%$	
	160	32~160	Fixed	$10I_n, \pm 20\%$	
	250	125~250	Fixed	$10I_n, \pm 20\%$	
	400	250~400	Fixed	$10I_n, \pm 20\%$	
	630	400~630	Fixed	$10I_n, \pm 20\%$	
	800	630~800	Fixed	$10I_n, \pm 20\%$	
	1000	800~1000	Fixed	$10I_n, \pm 20\%$	
	1250	1000~1250	Adjustable	$I_s : (7-8-9-10) I_n$	
1600	1000~1600	Adjustable	$I_s : (7-8-9-10) I_n$		

	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	$I_n, \pm 20\%$	Instantaneous action
	125	10~125	Fixed	$I_n, \pm 20\%$	
	160	32~160	Fixed	$I_n, \pm 20\%$	
	250	125~250	Fixed	$I_n, \pm 20\%$	
	400	250~400	Fixed	$I_n, \pm 20\%$	
	630	400~630	Fixed	$I_n, \pm 20\%$	
	800	630~800	Fixed	$I_n, \pm 20\%$	
	1000	800~1000	Fixed	$I_n, \pm 20\%$	
	1250	1000~1250	Adjustable	$I_s : (7-8-9-10) I_n$	
1600	1000~1600	Adjustable	$I_s : (7-8-9-10) I_n$		

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 1.05 I_n (cold state), 2h non-trip($I_n > 63A$), 1h non-trip($I_n \leq 63A$) 1.30 I_n (heat state), 2h trip($I_n > 63A$), 1h trip($I_n \leq 63A$)
	1600	1000A~1600A	Adjustable	I_r adjustable range: (0.7-0.8-0.9-1) I_n

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_s (A) and allowance	Release time
Short circuit protection	63	10~63	Fixed	$10I_n, \pm 20\%$	Instantaneous action
	125	10~125	Fixed	$10I_n, \pm 20\%$	
	160	32~160	Fixed	$10I_n, \pm 20\%$	
	250	125~250	Fixed	$10I_n, \pm 20\%$	
	400	250~400	Fixed	$10I_n, \pm 20\%$	
	630	400~630	Fixed	$10I_n, \pm 20\%$	
	800	630~800	Fixed	$10I_n, \pm 20\%$	
	1000	800~1000	Fixed	$10I_n, \pm 20\%$	
	1250	1000~1250	Adjustable	$I_s : (7-8-9-10) I_n$	
	1600	1000~1600	Adjustable	$I_s : (7-8-9-10) I_n$	

	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	$I_r, I_s, \pm 20\%$
	125	10~125	Fixed	$I_r, I_s, \pm 20\%$
	160	32~160	Fixed	$I_r, I_s, \pm 20\%$
	250	125~250	Fixed	$I_r, I_s, \pm 20\%$
	400	250~400	Fixed	$I_r, I_s, \pm 20\%$
	630	400~630	Fixed	$I_r, I_s, \pm 20\%$
	800	630~800	Fixed	$I_r, I_s, \pm 20\%$
	1000	800~1000	Fixed	$I_r, I_s, \pm 20\%$
	1250	1000~1250	Adjustable	$I_s : (7-8-9-10) I_n$
	1600	1000~1600	Adjustable	$I_s : (7-8-9-10) I_n$



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	$I^2t = \text{constant}$ $1.05I_r$, no action within 2h $1.3I_r$, action with 1h $2I_r$, $t_r = (12-60-80-100)s$, $I_{nm} < 400A$ $2I_r$, $t_r = (12-60-100-150)s$, $I_{nm} \geq 400A$
		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	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	$I_{sd} = (1.5-2-3-4-5-6-8)I_r + \text{OFF}$	$t_{sd} = 0.3, \pm 0.06s$
Action allowance				
Instantaneous protection	160~1600	32~1600	$I_i = (2-3-4-6-8-10-12)I_r + \text{OFF}$	Instantaneous action
Action allowance				
Neutral pole protection (code of four pole C/D)	All series	32~1600	$I_{RN} = (0.5, 1)I_n + \text{OFF}$, Adjustable	
Indication of overload	All series	32~1600	$I_{R0} = 1.2I_r$	

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	$12I_{n,r} \pm 20\%$	Instantaneous action
	125	10~125	Fixed	$12I_{n,r} \pm 20\%$	
	160	32~160	Fixed	$12I_{n,r} \pm 20\%$	
	250	125~250	Fixed	$12I_{n,r} \pm 20\%$	
	400	250~400	Fixed	$12I_{n,r} \pm 20\%$	
	630	400~630	Fixed	$12I_{n,r} \pm 20\%$	
	800	630~800	Fixed	$12I_{n,r} \pm 20\%$	

	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	$I_{R,r}, I_{i,r} \pm 20\%$
	125	10~125	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
	160	125,160	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
		125,160	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
	250	160~250	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
	400	315~400	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
	630	400~630	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$
800	630~800	Fixed	$I_{R,r}, I_{i,r} \pm 20\%$	





Motor protection—Thermal magnetic release+ residual current release

Thermal magnetic release	Frame size I_{tm} (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	Stationary	$12I_n \pm 20\%$	Instantaneous action
	125	10~125	Stationary	$12I_n \pm 20\%$	
	160	125,160	Stationary		
		125,160	Stationary	$12I_n \pm 20\%$	
	250	160~250	Stationary	$12I_n \pm 20\%$	
	400	315~400	Stationary	$12I_n \pm 20\%$	
	630	400~630	Stationary	$12I_n \pm 20\%$	

	Frame size I_{tm} (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	<table border="1"> <tr> <td>Non-delay type $5I_{\Delta n}$ maximum breaking time(s)</td> <td colspan="3">≤ 0.4</td> </tr> <tr> <td>Delay type $2I_{\Delta n}$ limit non-driving time (s) Adjustable</td> <td>0.1</td> <td>0.2</td> <td>0.3</td> </tr> <tr> <td>Delay type $2I_{\Delta n}$ maximum breaking time(s) Adjustable</td> <td>0.3</td> <td>0.4</td> <td>0.5</td> </tr> </table>	Non-delay type $5I_{\Delta n}$ maximum breaking time(s)	≤ 0.4			Delay type $2I_{\Delta n}$ limit non-driving time (s) Adjustable	0.1	0.2	0.3	Delay type $2I_{\Delta n}$ maximum breaking time(s) Adjustable	0.3	0.4	0.5
			Non-delay type $5I_{\Delta n}$ maximum breaking time(s)	≤ 0.4													
			Delay type $2I_{\Delta n}$ limit non-driving time (s) Adjustable	0.1		0.2	0.3										
	Delay type $2I_{\Delta n}$ maximum breaking time(s) Adjustable	0.3	0.4	0.5													
	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														



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

Table1 frame size code

Frame size	63/125	160	250/320	400/630	800	1000	1250/1600
Code	M1	M2	M3	M4	M5	M6	M7

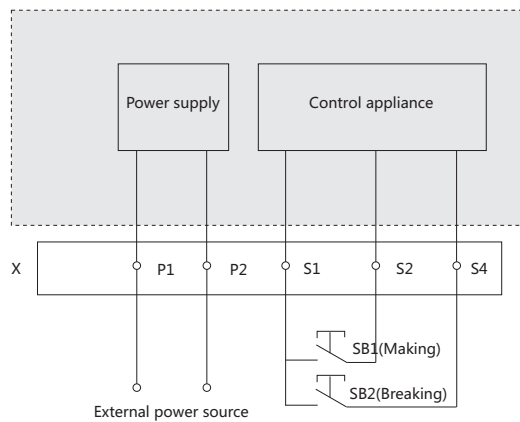
Table2 Applicable voltage code

Voltage	AC220V/230V/240V	AC380V/400V/415V	DC24V	DC110V	DC220V
Code	A1	A2	D1	D2	D3

Electrical characteristics

Category	Model	63/125/250/320 frame	All series
Structural style		Electromagnet	DC-AC
Voltage specification		AC230V, 400V	AC110V, 230V, 400V, AC220V, 230V, 240V, AC380V, 400V, 415V, DC24V, 110V, 220V, DC110V, 220V
Rated frequency		50Hz	50/60 Hz

Wiring diagram

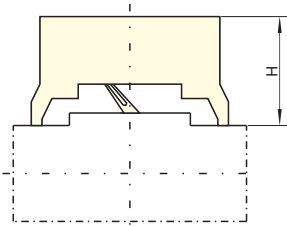


Description: SB1, SB2 is separately the on and off button;

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	160A	250A	400A	800A	1000A	1250/1600A
	125A		320A	630A			
Installation size H(mm)	93	97	97.5	154	153	154.5	156



External Accessories

ERH manual operational mechanism

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

Model description

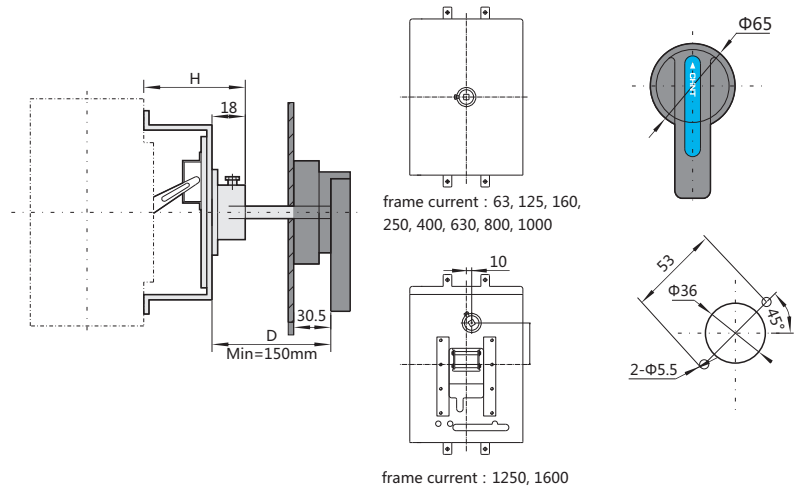
ERH - □□
 Category code of adaptive products: thermal magnetic type;
 electronic type (no code)
 residual current (code LE)
 Frame size (table 1)
 Name code of manual operational mechanism

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

Table1 frame size code

Frame size	63/125	160	250/320	400/630	800	1000	1250/1600
Code	M1	M2	M3	M4	M5	M6	M7

Installation diagram of manual operational mechanism



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



ERH-M6



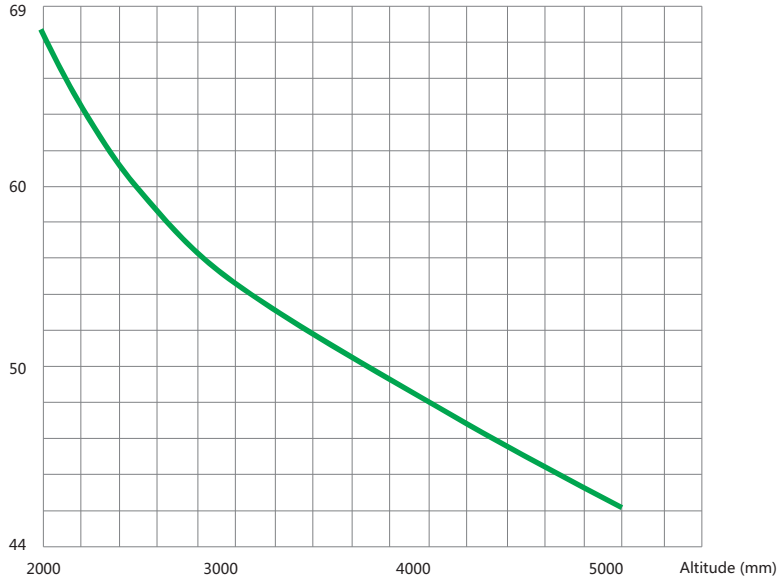
Scheme diagram of assembly of manual operational mechanism with the body



PIA-M2

Altitude derating curve

Maximum operation



Electronic type derating coefficient table

Frame size	Rated current	Long-time delay current setting	-25°C	-20°C	-15°C	-10°C	-5°C	-0°C	Rated current	40°C	45°C	50°C	55°C	60°C	65°C	70°C
NXMS-160	32A, 63A, 125A, 160A	$I_r < 0.65I_n$	$1.2I_r$	$1.2I_r$	$1.1I_r$	$1.1I_r$	$1.05I_r$	$1.05I_r$	32A, 63A, 125A	1.0In		0.9In	0.85In	0.8In	0.8In	
		$I_r > 0.65I_n$	$1.0I_r$						160A	1.0In	0.9In	0.85In	0.8In	0.7In	0.7In	
NXMS-250	250A	$I_r < 0.58I_n$	$1.15I_r$	$1.15I_r$	$1.15I_r$	$1.05I_r$	$1.05I_r$	$1.05I_r$	250A	1.0In		0.9In	0.85In	0.8In	0.8In	
		$I_r > 0.58I_n$	$1.0I_r$													
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-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

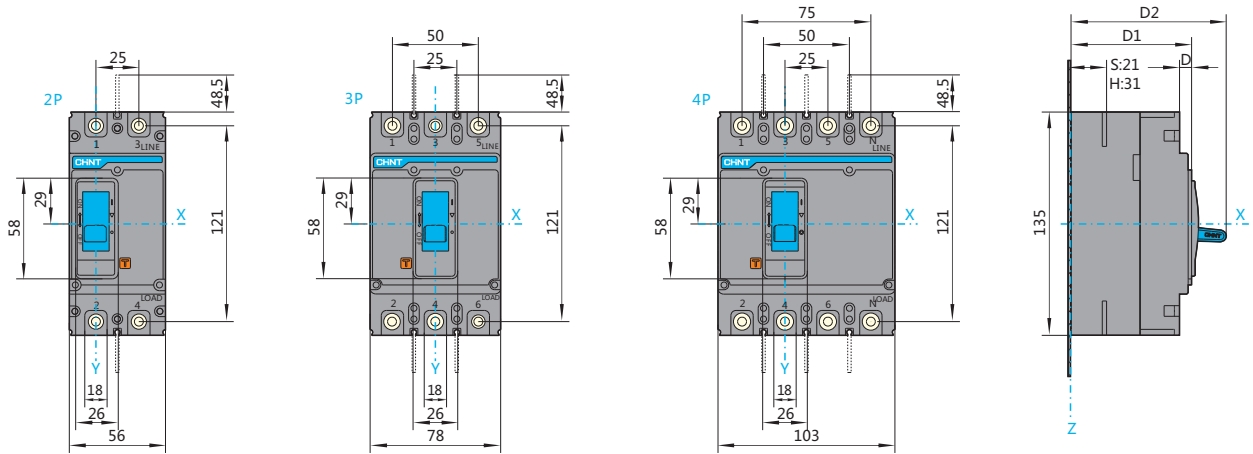
The reference section of connecting cable/copper bar with different rated current is as follows.

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
80	25
100	35
125, 140	50
160	70
180, 200, 225	95
250	120
280, 315, 320, 350	185
400	240



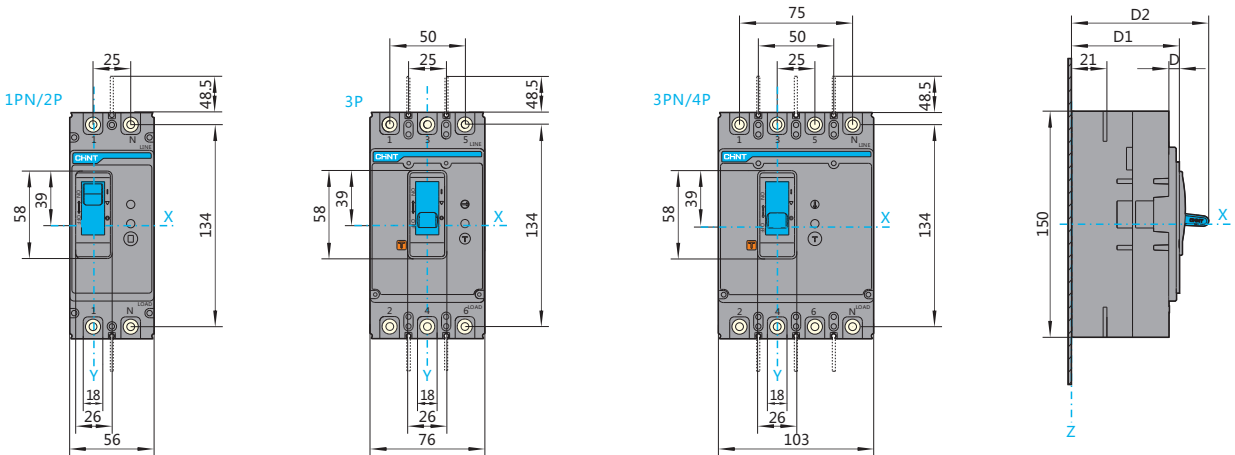
NXM- 63E/S/F/H, 125E/S/F/H, NXHM- 63, 125

Front connection, dimension (mm)



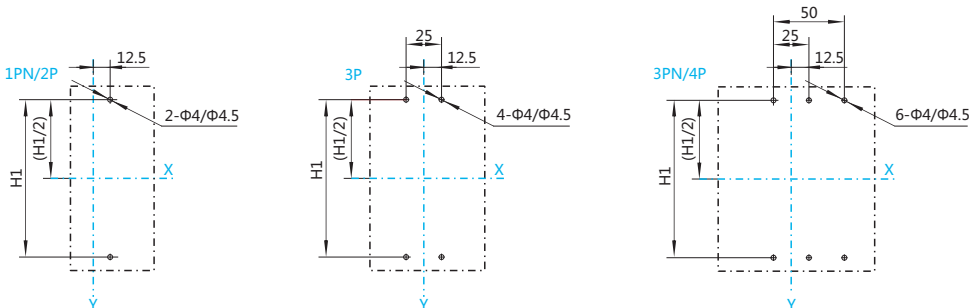
NXMLE-125S/F/H

Front connection, dimension (mm)



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

Installation size of baseplate

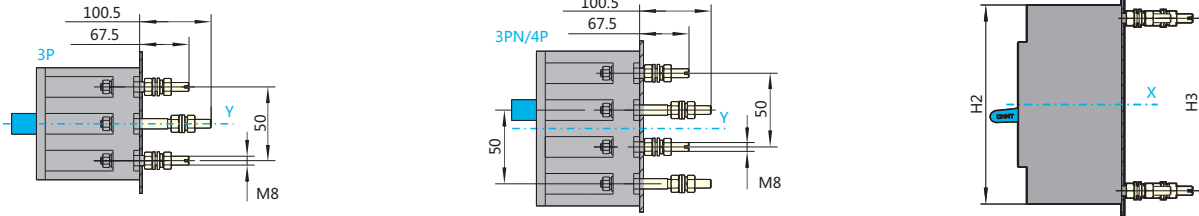


NXM: Φ4;
NXHM: Φ4.5

Specification and model	D1	D2	D	H1			Remark
				1PN/2P	3P	3PN/4P	
NXM-63E/S, 125E/S	71	90	7	117	117	117	2P/3P/4P
NXM-63F/H, 125F/H	81	100	7	-	117	117	3P/4P
NXMLE-125S	71	90	7	138	138	138	1PN/2P/3P/3PN/4P
NXMLE-125F/H	81	100	7	-	138	138	3P/3PN/4P
NXHM-63, 125	71	90	7	-	117	117	3P/4P

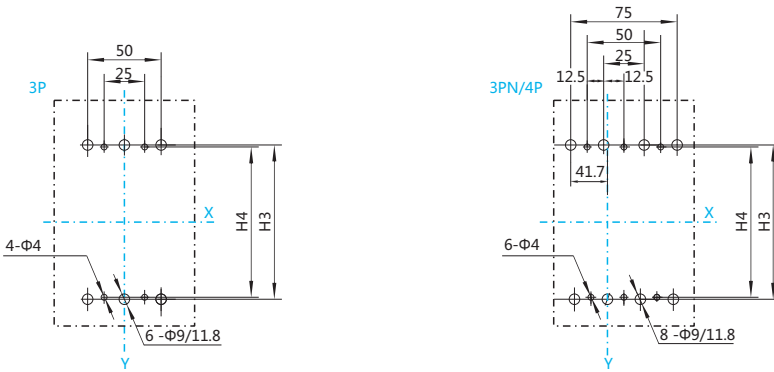
NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125

Rear connection (mm)



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

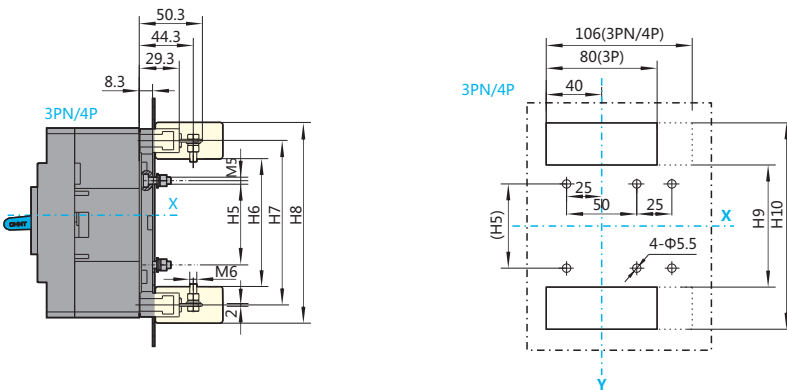
Rear connection (mm)



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	156	142	138	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)

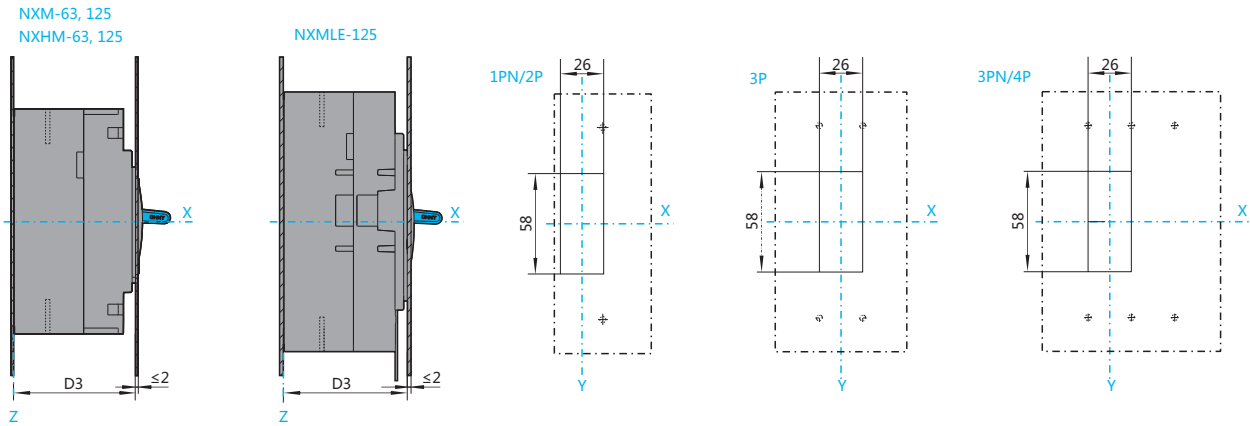


Specification and model	H5	H6	H7	H8	H9	H10	Remark
NXM-63E/S/F/H, 125E/S/F/H	60	75	121	159	92	144	3P/4P
NXMLE-125S/F/H	60	98	142	183	112	165	3P/3PN/4P
NXHM-63, 125	60	75	121	159	92	144	3P/4P



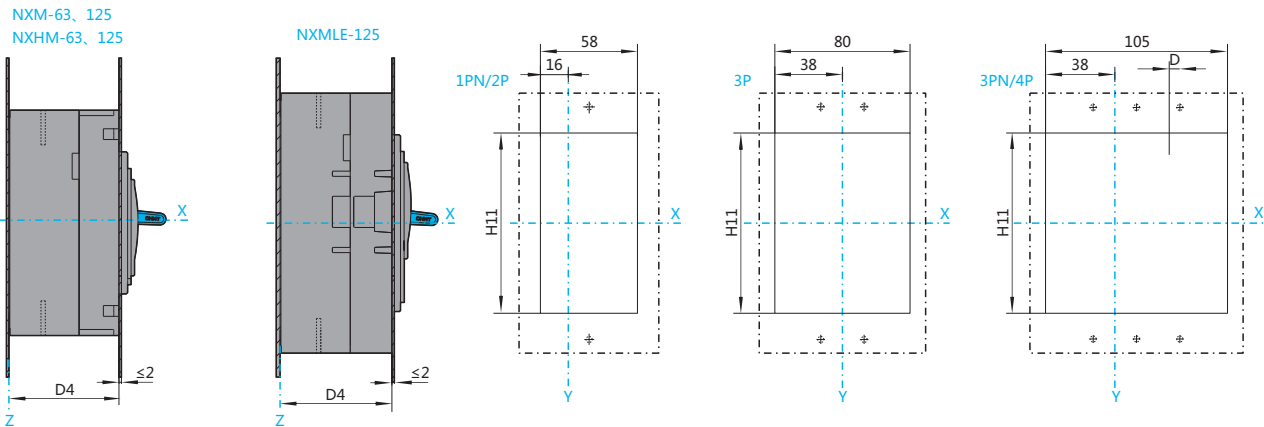
NXM-63E/S/F/H, 125E/S/F/H, NXMLE-125S/F/H, NXHM-63, 125

Cabinet gate hole (small) size (mm)



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

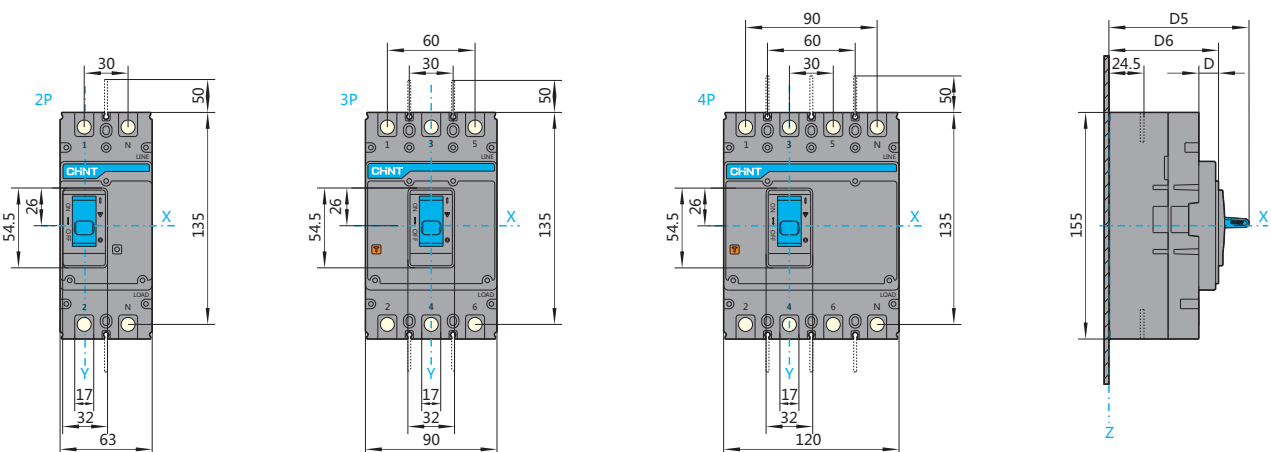
Cabinet gate hole (large) size (mm)



Specification and model	D3	D4	H11			Remark
			1PN/2P	3P	3PN/4P	
NXM-63E/S, 125E/S	71	64	87.5	87.5	87.5	2P/3P/4P
NXM-63F/H, 125F/H	81	74	-	87.5	87.5	3P/4P
NXMLE-125S	71	64	110	110	110	1PN/2P/3P/3PN/4P
NXMLE-125F/H	81	74	-	110	110	3P/3PN/4P
NXHM-63, 125	71	64	-	87.5	87.5	3P/4P

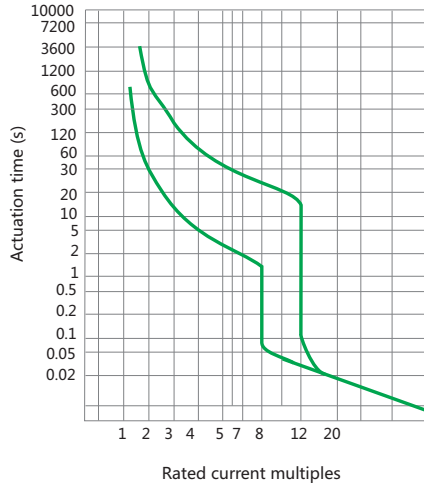
NXM-160E/S/F/H, NXHM-160

Rear connection, dimension (mm)



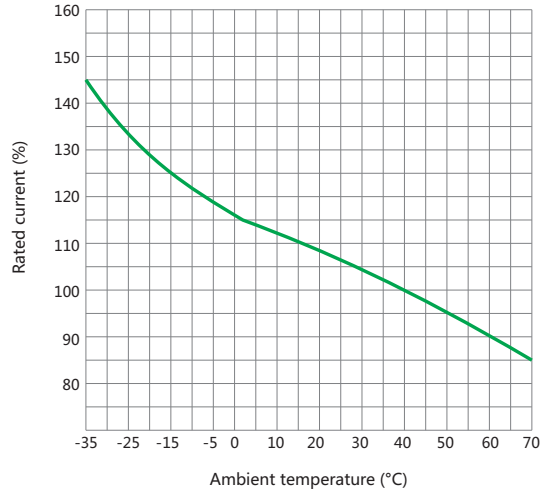
NXM-63

Tripping curve



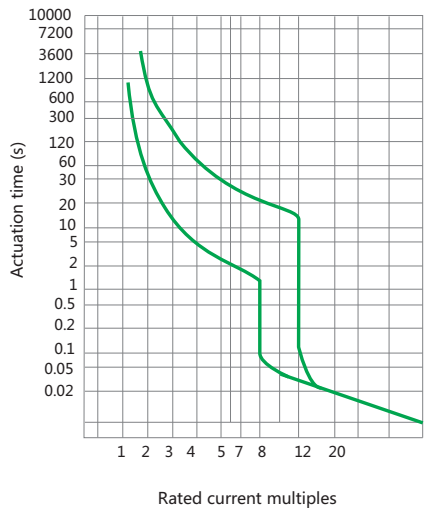
NXM-63

Temperature compensation curve



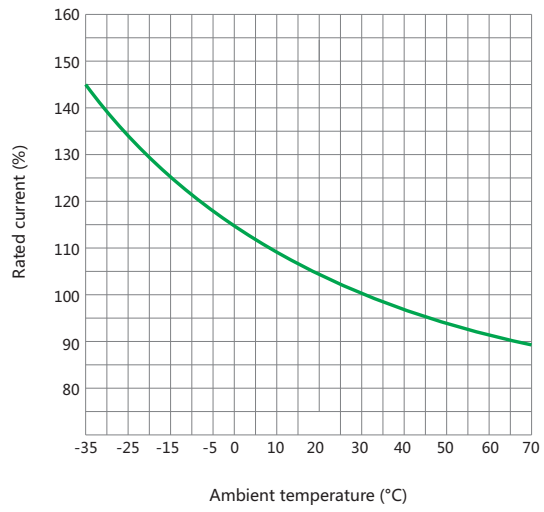
NXM-125, NXMLE-125

Tripping curve



NXM-125, NXMLE-125

Temperature compensation curve



NXMS series electronic moulded case circuit breaker

Tripping curve of distribution protection

