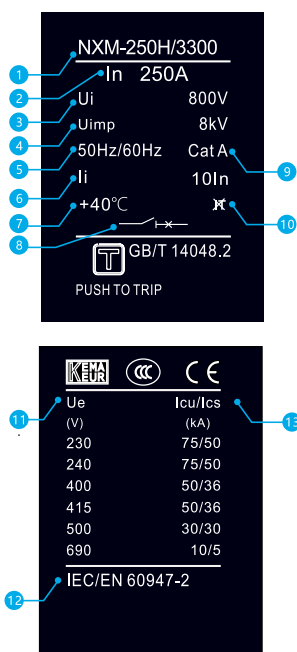




NXM-250S/4300A



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(W125), 250A, 400A, 630A, 800A(W630), 1000A(W800), 1250A, 1600A

NXM series moulded case circuit breaker

▪ Rated operational voltage: U_e : 220V/230V/240V, 380V/400V/415V, 500V , 690V

▪ Breaking capacity code: E, S, F, H

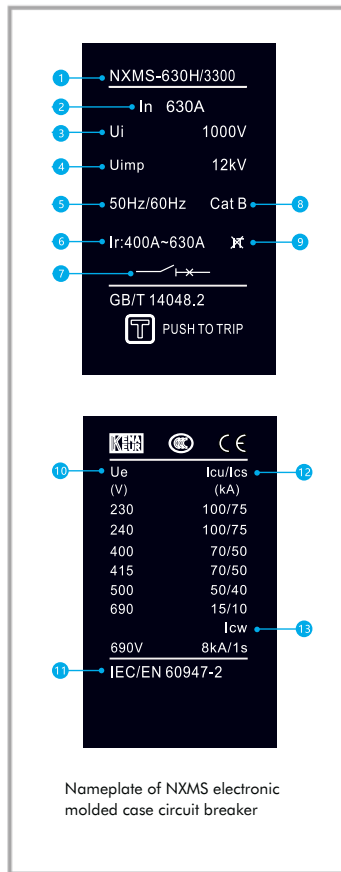
▪ Number of poles: 2P, 3P, 4P

▪ Release type: thermal magnetic fixed type; magnetic fixed type; electronic type.

▪ Installation method: Fixed type; plug-in type

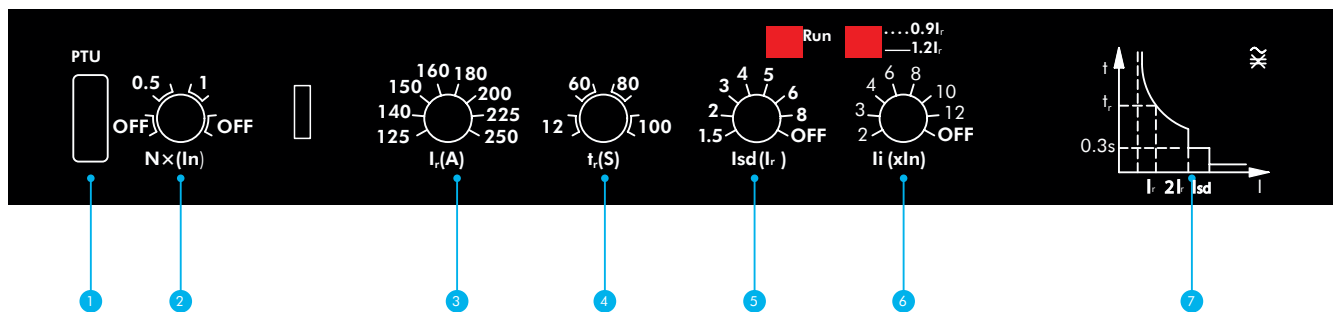
Nameplate interpretation

- 1 Product type: Frame size; breaking capacity; poles number
- 2 In: Rated operational current
- 3 Ui: Rated insulation voltage
- 4 Uimp: Rated impulsive withstand voltage
- 5 Frequency of A.C.
- 6 li: 10In Multiple of current of transient behavior
- 7 +40°C : Ambient temperature
- 8 Electrical symbol for circuit breaker with isolating function
- 9 Cat A: Utilization category of breaker
- 10 Not for IT systems
- 11 Ue: Rated operational voltage
- 12 The product is in conformity with standard IEC/EN 60947-2
- 13 Icu/Ics: Ultimate short circuit breaking capacity/Service short circuit breaking capacity



- 1 Product type: Frame size; breaking capacity; poles number
- 2 I_n : Rated operational current
- 3 U_i : Rated insulation voltage
- 4 U_{imp} : Rated impulsive withstand voltage
- 5 Frequency of A.C.
- 6 I_r : Long-time-delay setting current range
- 7 Electrical symbol for circuit breaker with isolating function
- 8 Cat B: Utilization category of breaker
- 9 Not for IT systems
- 10 U_e : Rated operational voltage
- 11 The product is in conformity with standard IEC/EN 60947-2
- 12 I_{cu}/I_{cs} : Ultimate short circuit breaking capacity/Service short circuit breaking capacity
- 13 I_{cw} : Rated short-time withstand current

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 I_{sd} setting with 7 steps that is adjustable and can be turned off (OFF)
- 6 Instantaneous action current I_i setting with 7 steps and that can be turned off (OFF)
- 7 Current-time protection curve



NXMLE-250S/4300A

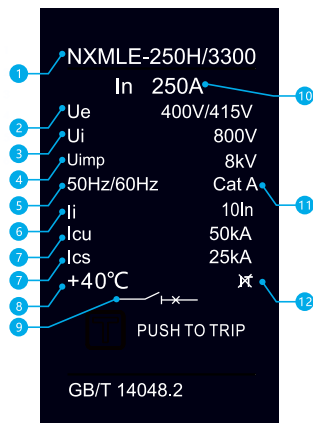
NXMLE series residual current circuit breaker

Residual current operated protection breaker (Coming soon)

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(W125), 250A, 400A, 630A
- Rated operational voltage: U_e (V AC): 220/230/240(1P+N,2P) 380/400/415(3P,3P+N,4P)
- Breaking capacity code: S, F, H
- Number of poles: 1PN, 2P, 3P, 3PN, 4P
- Installation method: fixed type; plug-in type

Nameplate interpretation



Nameplate of NXMLE residual current circuit breaker

- 1 Product type: Frame size; breaking capacity; poles number
- 2 U_e : Rated operational voltage
- 3 U_i : Rated insulation voltage
- 4 U_{imp} : Rated impulsive withstand voltage
- 5 Frequency of A.C.
- 6 I_i : $10I_n$ Multiple of current of transient behavior
- 7 I_{cu}/I_{cs} : Rated ultimate breaking capacity / Rated service breaking capacity
- 8 $+40^\circ\text{C}$: Ambient temperature
- 9 Electrical symbol for circuit breaker with isolating function
- 10 I_n : Rated operational current
- 11 Cat A: Utilization category of breaker
- 12 Not for IT systems
- 13 Rated residual operating current value
- 14 t : Maximum breaking time
- 15 Only applicable for three-phase power
- 16 The product is in conformity with standard IEC/EN 60947-2
- 17 Residual Current Operation Characteristic Type (AC Type and A Type)
AC type CBR is denoted by  ;
A Type CBR is denoted by .
- 18 Leakage current selection (mA)

NXHM series disconnector switch

Disconnecter switch (Coming soon)

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

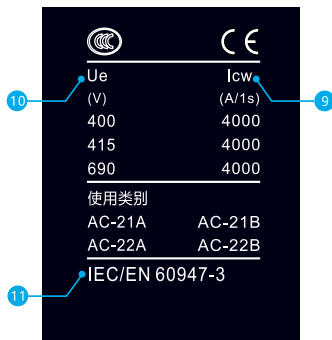
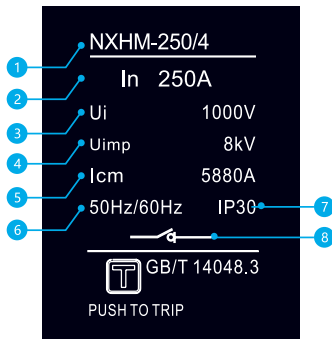
- Frame size: 63A, 125A, 160A, 250A, 320A, 400A, 630A,
- Rated operational voltage: U_e (VAC): 380/400/415/690
- Number of poles: 3P, 4P
- Installation method: fixed type; plug-in type



NXHM-250

Installation method: stationary type and plug-in type

- 1 Product type: Frame size; poles number
- 2 I_n : Rated operational current
- 3 U_i : Rated insulation voltage
- 4 U_{imp} : Rated impulsive withstand voltage
- 5 I_{cm} : Rated short-time making capacity
- 6 Frequency of A.C.
- 7 Enclosure rating
- 8 Electrical symbol for circuit breaker with isolating function
- 9 I_{cw} : Rated short-time withstand current
- 10 U_e : Rated operational voltage
- 11 The product is in conformity with standard IEC/EN 60947-3



Nameplate of NXHM disconnecter switch

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°C or higher than 40°C .

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 60947-1 and 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)

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(W125A) 250A 400A 630A 800A(W630A) 1000A(W800A) 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-160SP/4300 2 A 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. 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	32	40	50	63	80	100	125	140	150	160	180	200
63																
125																
W125																
160																
250																
400																
630																
W630																
800																
W800																
1000																
1250																
1600																

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

Frame size (A)		63			125			160(W125)			250		
Number of poles		2P	3P	4P	2P	3P	4P	2P	3P	4P	2P	3P	4P
Frame size (A)	E	■	■	■	■	■	■	■	■	■	■	■	■
	S	■	■	■	■	■	■	■	■	■	■	■	■
	F	-	■	■	-	■	■	-	■	■	-	■	■
	H	-	■	■	-	■	■	-	■	■	-	■	■

NXMS series electronic moulded case circuit breaker

Description

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

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.

⁴¹ 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

[illegible]

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

Table 4

[illegible]