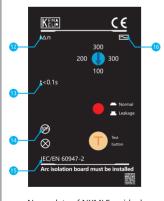


NXMLE-250S/4300A

NXMLE-250S/4300A In:250A PUSH TO TRIP CHINT ELECTRICS CO.,LTI



Nameplate of NXMLE residual current circuit breaker

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.

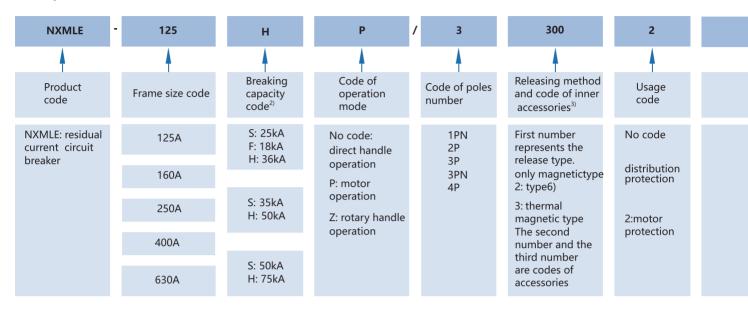
- Frame size: 125A, 160A, 250A, 400A, 630A
- Rated operational voltage: Ue(V AC): 220/230/240,(1P+N,2P) 380/400/415(3P,3P+N,4P)
- Breaking capacity code: S, F, H
 Number of poles: 1PN, 2P, 3P, 3PN, 4P
- Installation method: fixed type; plug-in type

Nameplate interpretation

- 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 li: 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°C: 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
- 10 Only applicable for three-phase power
- 10 The product is in conformity with standard IEC/EN 60947.2
- 12 Leakage current selection (mA)

NXMLE series residual current circuit breaker

Description



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.

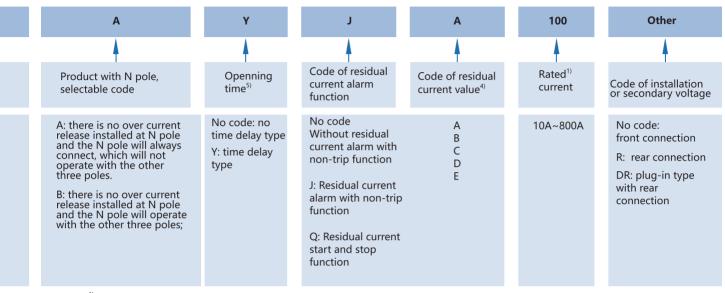
Rated cu	rrent (A)	10	16	20	25	32	40	50	63	80	100	125	160	180
	125	•	•	•	•	•	•	•	•	•	•	•		
Frame	160											•	•	
size	250												•	
(A)	400													
	630													

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	
	S	S •			•			•		•	
Code of breaking capacity	F	-	•	-	-	•	-	-	•	•	
	Н	-			-			-		•	

Comparison table of frame size and residual current value and code

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



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 3		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

Technical Parameters

NXMLE series residual current circuit breaker (Coming soon)

Frame size Inm(A)		125				160				
Rated operational current In (A)	10,16,20,25, 63,80,100,1		0,		32,40,50,80,100,125,140,160					
Rated insulation voltage Ui(V)	800				800					
Rated impulse withstand voltag	8				8					
Rated operational voltage Ue(V	220/230/240,380/400/415				220/230/240	,380/400/	/415			
	30/50/100/2	200/300	0/500		30/50/100/20	00/300/50	00			
	Fixed single grade, delay type	50/100/200	/300/50	00		50/100/200/3	300/500			
		A: 30/50/10	0/200			A: 30/50/100	/200			
		-				-				
Rated residual operating current I Δn(mA)	Adjustable non-delay type	C: 100/200/	300/50	0		C: 100/200/3	00/500			
current i An(iniA)		-				-				
		B: 50/100/2	00/300			B: 50/100/20	0/300			
	Adjustable non-delay type	C: 100/200/	300/50	0		C: 100/200/3	00/500			
	Adjustable from delay type	-				-				
		-				_				
Rated residual non-operating of	0.5I∆n				0.5I∆n					
Non-delay type 5I Δn, maximur		≤ 0.04				≤ 0.04				
Delayed adjustable 2I Δn limit r	non-actuating time (s)non-adjustable	0.1/0.2/0.3	, optio	nal		0.1/0.2/0.3	optional			
Delayed adjustable 2I Δn maxin	num breaking time	0.3/0.4/0.5	, optio	nal		0.3/0.4/0.5				
Breaking capacity code	S	F		Н	S	F		Н		
	1P+N		-		-		-		-	
	2P		-		_		-		=	
Number of poles	3P		-				-		•	
Number of poles	3P+N						-		•	
	4P				•	•	-			
Rated ultimate short circuit breaking capacity lcu(kA),	AC220/230/240	36	36		50	50	50		75	
	AC380/400/415	25	18		36	35	25		50	
Rated service short circuit	AC220/230/240	18	36		36	30	50		50	
breaking capacity Ics (kA)	AC380/400/415	13	18		18	18	25		25	
In conformity with standard		IEC/EN 6094	17-2				1			
Utilization category		A			A					
Isolation function ¹⁾		•			•					
Ambient temperature		-25°C ~+70°	°C							
Arcing distance		≤ 50				≤ 50				
	Without maintenance	20000				20000				
Mechanical life (times)	With maintenance	40000				40000				
	AC415V,In	10000				10000				
	Auxiliary contact (1open and 1closed)									
	Auxiliary contact (2open and 2closed)	-		-						
	Alarm contact							•		
	Auxiliary contact, alarm contact									
	Shunt release									
	Under voltage release									
Accessories	Residual current alarm with non-trip module	-		-		•				
	Manual operational mechanism							•		
	Motor-driven mechanism					-		-		
	Rear connection	-				-		-		
	Plug-in type	•								
	Extending terminal bonding bar	-								
	Interphase barrier	-				•				
Disconsistence and it is a	Width (1PN/2P/3P/3PN/4P)	56/56/76/10	03/103			63/63/90/120	0/120			
Dimension and sizes(mm) width(W) x height(H)	Height	156				160				
x depth(D)	Depth (S type and H type)	71/81				75.5/91				
		11/01				13.3/31				

Note: 1) 1PN/3PN has no isolation function.

250			400			630			
125,160,180,200, 225,250			250,280,315,320,350	0,400		400,500,630			
800			800			800			
8			8			8			
220/230/240,380/4	400/415		220/230/240,380/40	0/415		220/230/240,380/40	00/415		
30/50/100/200/30			50/100/200/300/500			50/100/200/300/50			
50/100/200/300/5			50/100/200/300/500			50/100/200/300/50			
A: 30/50/100/200			B: 50/100/200			B: 50/100/200			
_			C: 100/200/300			C: 100/200/300			
C: 100/200/300/50	00		D: 200/300/500			D: 200/300/500			
-			E: 300/500/1000			E: 300/500/1000			
B: 50/100/200/300)		B: 50/100/200			B: 50/100/200			
C: 100/200/300/50			C: 100/200/300			C: 100/200/300			
_			D: 200/300/500			D: 200/300/500			
_			E: 300/500/1000			E: 300/500/1000			
0.5I∆n			0.5I∆n			0.5I∆n			
≤ 0.04			≤ 0.04			≤ 0.04			
0.1/0.2/0.3 , optio	onal		0.1/0.2/0.3 , option	al		0.1/0.2/0.3 , option	nal		
0.3/0.4/0.5 , optio			0.3/0.4/0.5 , option			0.3/0.4/0.5 , option			
S	F	Н	S	F	Н	S	F	Н	
	-	-	-	-	-	-	-	-	
	_	-	-	-	-	-	-	-	
-	-	•	•	•	•	•			
•	-	-	•	•	•	•			
	-	•		•		-	_	•	
50	50	75	75	75	100	75	75	100	
35	25	50	50	36	70	50	36	70	
30	50	50	50	75	75	50	75	75	
18	25	25	25	36	36	25	36	36	
			IEC/EN 60947-2	ı					
Α			A			Α			
•									
			-25°C ~+70°C						
≤ 100			≤ 100			≤ 100			
20000			10000			10000			
40000			20000			20000			
10000			8000			8000			
•			•	•		•	•		
•	•		•	•		•			
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•				•					
78/78/105/140/14	0		-/-/140/185/185			-/-/140/185/185			
170			267			267			
77/80			108.5/108.5			108.5/108.5			

