

FACTORY AUTOMATION

MOLDED-CASE CIRCUIT BREAKER MX Series 30AF~630AF



21 A

OVERVIEW

- **1.** Features/3
- **2.** Models/5
- **3.** Specifications/7
- 4. Internal and External Accessories/11
- **5.** Characteristics and Dimensions/13
- 6. Installation/17
- **7.** Ordering Information/18



We introduce full set of production equipment and top production technologies from Fukuyama Works. Follow the strict and complete management systems established by MITSUBISHI Electric for manufacturing industry.

Since MX series molded-case circuit breaker was launched into the market in 2012, it has been highly praised by the OEM customers in the fields such as elevator and large-sized machine tool and in the secondary power distribution market because of its high quality and high reliability.

We made improvements in the dimensions and accessories, making it a real simple and useful product in Mitsubishi Electric's family of circuit breaker products.



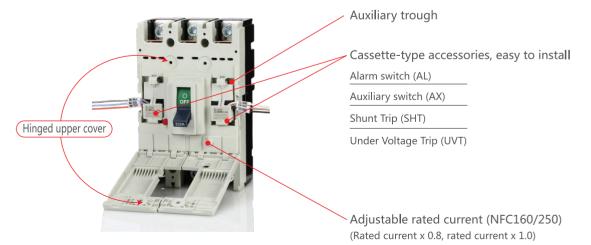
Features >>>

• Compact



• Flexible

With corresponding cassette-type internal accessories, it can be installed on site.





• User-friendly

Plug-in terminal cover makes it user-friendly Corresponding isolation function makes it applicable to mechanical equipment

• Standard

Compliance with GB/T and IEC standards The main models have passed KEMA certification



P-4

Standards: - IEC 60947-2, GB/T14048.2

Directives: - EC Directive: "Low Voltage Directive" (LVD) EN60947-2

Models>>>

Quality Management System

ISO 9001 Standard

Environment Management System, Social Responsibility

ISO 14001 Standard OHSAS18001 Occupation Health and Safety Management System

Green Product, Environment Protection

Compliance with RoHS Directive Minimize the impact on the environment by optimizing the material selection, processing technology and packaging method.

ISHI|三菱电机



Rated short-circuit breaking capacity list

	ort-circuit				Frame (A)			
breaking Icu	(kA)	30	60	100	160	250	400	630
AC400V	AC230V							
50	85						NFC400-HMXA	NFC630-HMXA
36	85				NFC160-HMXA	NFC250-HMXA		
36	65			NFC100-HMXA				
36	50						NFC400-SMXA	NFC630-SMXA
25	50			NFC100-SMXA	NFC160-SMXA	NFC250-SMXA		
15	30				NFC160-CMXA	NFC250-CMXA		
10	25		NFC60-HMXA	NFC100-CMXA				
7.5	10		NFC60-SMXA					
5	7.5	NFC30-SMX	NFC60-CMXA					

Note: Please refer to the Product Specification for specific number of poles.

Specifications>>>

Frame(A)					2	0				60																																
Series					-	5	(2		S			Н																													
Model					-	0-SMX	NFC60		NF	C60-SM	IXA	NE	C60-HM	IXA																												
Rated curren	nt In (A)				3, 4,	6, 10, , 25, 30					2, 40, 50																															
Image																																										
Rated ambie		rature (°C)			2	10	4			40			40																													
	Number of poles					3	2	3	2	3	4	2	3	4																												
Rated insula	Rated insulation voltage Ui (V AC)					90	69			690			690																													
Datad	IEC609	17.2		15V		2.5	5/2			7.5/4			10/5																													
Rated short-circuit	EN6094			00V		2.5	5/2			7.5/4			10/5																													
breaking	(Icu/Ics		3	80V		2.5	5/2			7.5/4			15/7.5																													
capacity		·	2	30V	7.	5/4	7.5	5/4		10/5			25/12.5																													
(kÅ)	GB/T14	4048.2	AC 4	00V	5/	2.5	5/2	2.5		7.5/4			10/5																													
	(Icu/Ics	s)	2	30V	5/2.5 7.5/4 8		7.5/4		10/5				25/12.5																													
Rated impuls	se withsta	and voltage	Uimp (kV)			8	8	3		8			8																													
Suitability fo	Suitability for isolation				• ((*1)				٠			•																													
Reverse con	Reverse connection					-		-		-			-																													
Number of c	perating		hout current h current		10,000 1,500		10,000 1,500			10,000 1,500		10,000 1,500																														
Utilization ca	ategory				with current		With current		with current		With current				With Current		With carrent		With current		-	A		4		<u>1,500</u> А			A													
Pollution deg						3				3			3																													
. enation deg				а	50	75	50	75	50	75	100	50	75	100																												
Overall		(a)		b		30	13		50	130	100		30	100																												
Dimension				c		58	6			68			58																													
(mm)			Ц	са		90	9			92			92																													
Mass(kg)					0.5	0.7	0.6	0.8	0.6	0.8	1.0	0.6	0.8	1.0																												
-	and conne	ection (Front	connection)	(F)		terminal	Screw t			ew term			ew term																													
matallation a		Alarm swi	,	AL		(*2)				• term		300	ew term	niai																												
		Auxiliary		AX		(*2)				•			•																													
Internal acce			xiliary switch	ALAX		-		•		•			•																													
(cassette-typ)e)	Shunt trip		SHT	•	(*2)				•			•																													
		Undervol		UVT	-	• (*2)	•	•	•		•	•																														
		External c		F	-	• (2)	-	•	-		•	_																														
- · ·		handle	perunny	V	-	•	_	•	-		•	_																														
External acce	External accessories			TC-L		•				•			•																													
	1		cover	TC-S		•		<u> </u>		•			•																													
		CE		10.5					ج الح		tion		KEMA																													
Certification		CCC			Self declaration Passed		Self declaration Passed		361				Passed																													
Automatic tr	inning de								Thorr			Thorr		notic																												
Automatic I	Automatic tripping device					waynetic	Thermal-magnetic Thermal-magnetic				Thermal-magnetic																															

*1. While installing the external operating handle, the isolation function is unavailable for NFC30-SMX.

*2. Not cassette-type accessory.

*3. The rated current of NFC160-CMXA, NFC160-SMXA and NFC160-HMXA are adjustable.

They can be adjusted to rated current x0.8 or 1.0. (for example: 125A can be adjusted to 100A and 125A)



			100					1	.60			
	0		S		Н		С		5	F		
NFC100)-CMXA	NF	C100-SM	IXA	NFC100-I	HMXA	NFC160-CMXA	NFC160)-SMXA	NFC160	-HMXA	
	15, 16, 2	0, 25, 30,	, 32, 40, 5	50, 60, 63	3, 75, 80, 100			125, 140, 3	150, 160(*3	3)		
									C All and a second seco			
4			40	I	40		40	4		4		
2	3	2	3	4	3	4	3	3	4	3	4	
69			690		690		690		90	69		
10			25/12.5		36/1		15/7.5		12.5	36/		
10			25/12.5		36/1		15/7.5		12.5	36/		
15/	12.5		30/15 50/25		36/1 65/3		22/11 30/15	50,	/15	36/ 85/		
10			25/12.5		36/1		15/7.5		12.5			
	12.5		50/25		65/3		30/15	50/			36/18 85/43	
	3		8		8	5	8		3	8		
	•		•		•		•		•			
-	-		-		-		-	-	-	-		
10,0	000		10,000		10,00	00	8,000	8,0	000	8,0	00	
1,5	00		1,500		1,50	0	1,000	1,0	00	1,0	00	
A	4		А		A		А	l A	Ą	A	A	
3	3		3		3		3	3	3	3	}	
50	75	50	75	100	75	100	105	105	140	105	140	
	130		130		130		165		65	16		
	68		68		68		68		8	6		
0.0	92	0.0	92 0.9	1 1	92		92	9		9		
0.6 Screw t	0.9 erminal	0.6	ew termi	1.1 nal	0.9 Screw ter	1.1 rminal	1.8 Screw terminal	1.8 Screw t	2.0 erminal	1.8 Screw t	2.0 erminal	
		301	ew terrin	IId	•	IIIIIdi				Screw to		
			•		•		•					
	•		•		•		•		•			
	•		•		•		•		•	•)	
٠	•	•			•		•			•)	
-	٠	-	•		•		•			•		
-	•	-			•		•			•		
	•		•		•		•	•	•	•		
			•		•		-	-	-	-		
	MA		KEMA		Self decla		Self declaration		MA	Self dec		
	sed		Passed		Passe		Passed		sed	Passed c Thermal-magnetic		
Thermal-	magnetic	Theri	ma l -mag	netic	Thermal-m	agnetic	Thermal-magnetic	Thermal-	magnetic	Thermal-	magnetic	

Specifications>>>

Frame(A)						250			
Series					С	S		H	-
Mode					NFC250-CMXA	NFC250-	SMXA	NFC250)-HMXA
Rated curren	it In (A)					175, 200, 225,	250 (*2)		
Image									
Rated ambie		ature (°C)			40	40		4	0
Number of p					3	3	4	3	4
Rated insulat	Rated insulation voltage Ui (V AC)				690	69			90
	ed IEC60947-2				15/7.5	25/1			/18
Rated short-circuit			A(100V	15/7.5	25/1			/18
breaking	aking (Icu/Ics)			380V	22/11	30/3			/18
capacity				230V	30/15	50/2			/43
(kA)	GB/T14			100V	15/7.5	25/1			/18
	(Icu/Ics))		230V	30/15	50/2	25	85,	/43
Rated impuls	ated impulse withstand voltage Uimp (kV)				8	8			8
Suitability fo					•	•		(•
Reverse conr	nection	i			-	-			-
Number of o	perating of		nout current		8,000	8,00			000
		Witl	n current		1,000	1,00			000
Utilization ca					A	A			4
Pollution deg	gree				3	3			3
Overall		k a ,	ca	a	105	105	140	105	140
Dimension				b	165	16	-	165	
(mm)		Þ	┨	С	68	68		68	
Maria (L.)				са	92	92		92	
Mass(kg)				(5)	1.8	1.8	2.0	1.8	2.0
Installation a	ind conne				Screw terminal	Screw te	rminal		erminal
		Alarm swi		AL AX	•	•			•
Internal acce		Auxiliary s			•	•			•
(cassette-typ		Alarm Aux Shunt trip	xiliary switch	SHT	•	•			•
		Undervolt		UVT	•	•			•
		External o		F	•	•			•
		handle	perating	r V	•	•			•
External acce	essories			TC-L	•				•
		Terminal of	cover	TC-S	• 	•			
	CE CE		- Self declaration	KEN	1Δ	Salf day	laration		
Certification		CCC			Passed				
Automatic tr	inning de				Thermal-magnetic Thermal-magnetic Thermal-magnetic				
Automatic ti	ipping de	vice			Inernal-magnetic	Inernal-II	lagnetic	Inennal	magnetic

*1. While installing the external operating handle, the isolation function are unavailable for NFC400-SMXA, NFC400-HMXA, NFC630-SMXA and NFC630-HMXA.

*2. The rated current of NFC250-CMXA, NFC250-SMXA and NFC250-HMXA are adjustable. They can be adjusted to rated current x0.8 or 1.0. (for example: 200A can be adjusted to 160A and 200A)

*3. The instantaneous trip current of NFC630-SMXA and NFC630-HMXA are adjustable. They can be adjusted to

rated currentx4 or x7 or x10 or x13. (for example:500A can be adjusted to 2000A,3500A,5000A and 6500A)



4	00	630					
S	H	S	Н				
NFC400-SM X A	NFC400-HMXA	NFC630-SM X A	NFC630-HMXA				
250, 300	, 350, 400	500, (600, 630 (*3)				
40	40	40	40				
3 4	3 4	3 4	3 4				
690 36/18	690 50/25	690 36/18	690 50/25				
36/18	50/25	36/18	50/25				
36/18	50/25	36/18	50/25				
50/25	85/43	50/25	85/43				
36/18	50/25	36/18	50/25				
50/25	85/43	50/25	85/43				
8	8	8	8				
•(*1)	•(*1)	•(*1)	•(*1)				
-	-	-	-				
5,000	5,000	5,000	5,000				
1,000 A	1,000	1,000 A	1,000				
3	A 3	3	A 3				
140 185	140 185	210 280	210 280				
257	257	275	275				
103	103	103	103				
155	155	155	155				
5.7 7.5	5.7 7.5	10 13	10 13				
Screw terminal	Screw terminal	Screw terminal	Screw terminal				
•	•	•	•				
•	•	•	•				
-	-	-	-				
•	•	•	•				
• -	• -	• -	• -				
•	•	•	•				
•	•	•	•				
-	-	-	-				
Self declaration	Self declaration	Self declaration	Self declaration				
Passed	Passed	Passed	Passed				
Thermal-magnetic	Thermal-magnetic	Thermal-magnetic Thermal-magnetic					

Internal and External Accessories>>>

Internal Accessories

1.Alarm Switch (AL) Ope	eration	Auxiliary switch (AX)	Operation
Circuit Breaker Status	AL Switch contact	Circuit Breaker Status	AX Switch Contact
OFF or ON	98/ALa (Open) 96/ALb (Closed) 95/ALc	OFF or Trip	14/AXa (Open) 12/AXb (Closed) 11/AXc
Trip	98/ALa (Closed) 96/ALb (Open) 95/ALc	ON ON	14/AXa (Closed) 12/AXb (Open) 11/AXc

2.AL · AX Switch Rating

			AC		DC				
Model Name	Туре	Voltage (V)	Curre	Current (A)		Curre	ent (A)		
		voltage (v)	Resistive Load	Inductive Load	Voltage (V)	Resistive Load	Inductive Load		
NFC30-SMX ^(*1) NFC60-CMXA NFC60-SMXA NFC60-HMXA NFC100-CMXA NFC100-SMXA NFC100-HMXA NFC160-CMXA	AL-2MXLA AL-2MXRA AX-2MXLA	125	5	3	125	0.4	0.4		
NFC100-HMXA NFC160-SMXA NFC250-CMXA NFC250-CMXA NFC250-HMXA	AX-2MXRA ALAX-2MXA	250	3	2	-	-	-		
NFC400-SMXA NFC400-HMXA	AL-4MXLA (*2)	125	5	3	125	0.4	0.4		
NFC630-SMXA NFC630-HMXA	AX-4MXA (*3)	250	3	2	-	-	-		

*1. AL and AX for NFC30-SMX are not cassette-type accessories and need to be assembled at factory. *2. Can be installed only on left pole. *3. Can be installed on both left and right poles.

3.SHT Rating

Model Name	Туре	Cut-off Switch	Voltage (V)	Input Power Re	quirement (VA)	Operating Time (ms)
Model Name	туре	cut-on switch	vonage (v)	AC	DC	Operating time (ins)
	SHTA120-2MXLA SHTA120-2MXRA		AC100-120V	120	_	
NFC30-SMX (*1) NFC60-CMXA NFC60-SMXA NFC60-HMXA NFC100-CMXA NFC100-SMXA	SHTA440-2MXLA SHTA440-2MXRA	HTA440-2MXLA AC220-440V				
NFC100-CMXA NFC100-SMXA NFC100-HMXA NFC160-CMXA NFC160-SMXA NFC160-HMXA	SHTD024-2MXLA SHTD024-2MXRA	Equipped	DC24V DC48V — 120		15 or less	
NFC250-CMXA NFC250-SMXA NFC250-HMXA	MXA SHTD048-2MXLA SHTD048-2MXRA	- daile h a a		120		
	SHTD100-2MXLA SHTD100-2MXRA		DC100V			
NFC400-SMXA NFC400-HMXA	SHTA220-4MXRA (*2) SHTA440-4MXRA	Environd	AC110-220V 120 —			
NFC630-SMXA NFC630-HMXA	SHTD024-4MXRA SHTD048-4MXRA	Equipped	DC24V DC48V	_	120	

*1. SHT for NFC30-SMX is not cassette-type accessory and need to be assembled at factory. *2. SHT for NFC400 and NFC630 can not be installed on left pole.

4.UVT Rating

Model Name	Туре	Resettable/ Non-resettable	Voltage (V)	Input Power Re AC	equirement (VA) DC	Operating Time (ms)		
NFC30-SMX (*1) NFC60-CMXA NFC60-SMXA NFC60-HMXA	UVTSA120-2MXRA (*2)		AC100-120V					
NFC100-CMXA NFC100-SMXA	UVTSA240-2MXRA UVTSA400-2MXRA	Desettels	AC220-240V	E				
NFC100-HMXA NFC160-CMXA NFC160-SMXA NFC160-HMXA	UVTSA460-2MXRA	Resettable	AC380-400V		_			
NFC250-CMXA NFC250-SMXA NFC250-HMXA			AC440-460V			30 or less		
	UVTSA120-4MXRA (*2)		AC110-120V					
NFC400-SMXA NFC400-HMXA	UVTSA240-4MXRA	Resettable	AC200-240V	5	_			
NFC630-SMXA NFC630-HMXA	UVTSA415-4MXRA	Resettable	AC380-415V					
	UVTSA460-4MXRA		AC440-460V					

*1. UVT for NFC30-SMX is not cassette-type accessory and need to be assembled at factory. *2. UVT can not be installed on left pole.

5. Maximum Number of Internally Mounted Accessories

Model Name	Number				Acc	cessories				
Model Name	of Poles	AL	AX	SHT or UVT	AL + AX	ALAX	AL + SHT or UVT	AX + SHT or UVT	AL+AX+SHT/UVT	ALAX+SHT/UVT
NFC60-CMXA NFC60-SMXA NFC60-HMXA NFC100-CMX	2P	•	•	(*1)(*2)						
NFC100-SMXA NFC100-HMX		←0 0 →	+00	(*1)(*2)		-	- -●	← ○ (*2)		- ▲
NFC160-CMXA NFC160-SMXA NFC160-HMXA NFC250-CMXA NFC250-SMXA NFC250-HMXA	3P,4P	• 0 0 •	← ◎ ◎ →	■==== (*1)(*2)	• • •	-	- -●	← ○ (*2)		← ▲
NFC400-SMXA NFC400-HMX	3P,4P		8 (*4)	(*1)	• 8 (*3)			8	(*1) (*2) (*3)	
NFC630-SMXA NFC630-HMX	3P,4P		8 (*4)	(*1)	• 00 (*3)			000	(*1) (*2) (*3)	

*1. UVT can not be installed on left pole.

P-11

 *2. When UVT is provided, the UVT voltage module will come in the vertical lead wire terminal block type. (SHT does not have a voltage module.)
 *3. AX can be installed on where AL is installed.

Left Pole Right Pole

● AL o AX ▲ALAX SHT or UVT

*4. It can be also installed on left and right pole. but it is better to install on left pole unless the AX QTY is more than 3 for NFC400 or more than 4 for NFC630.

MX SERIES

External Accessories

1. V-type Operating Handle

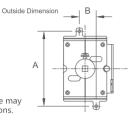
Exterior (Color: black)



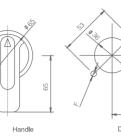
- IP50 rating (IEC 60529)
- Three padlocks which are commercially available may
- realize locking function in the ON or OFF positions.

The door lock mechanism makes the door open only in the OFF position.

Summary of Dimensions

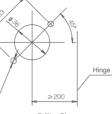






æ ÷

⊕



Manual Operation Mechanism

Manual Operation Mechanism

Drilling Plan

Model Name	Туре	Number					Lock	Panel door	Padlock(See drawing below)			
Model Name	туре	Poles	А	В	D1		н	Position	open position		b	с
NFC30-SMX	V-05MX	3P	111	25	MIN:50 MAX:150	-	53.5					
NFC60-CMXA NFC60-SMXA NFC60-HMXA NFC100-CMXA NFC100-SMXA	V-05MXA	3P,4P	111	25		Ø7	55	ON.OFF	OFF	35~40		
NFC100-HMXA	V-1MXA	3P,4P	111	25	MIN:40 MAX:144	~ .	55				19~22	5~6
NFC160-CMXA NFC160-SMXA NFC160-HMXA NFC250-CMXA NFC250-SMXA NFC250-HMXA	V-2MXA	3P,4P	126	35			55],				
NFC400-SMXA NFC400-HMXA	V-4MXA	3P,4P	221	45	MIN:50	Ø5.5 -	85					
NFC630-SMXA NFC630-HMXA	V-6MXA	3P,4P	242	70	MAX:150		85					

2. F-type Operating Handle

The handle can be locked while in the ON position.
The handle can be locked while in the ON or OFF position.

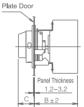
• The door lock mechanism makes the door open only in the OFF position.

Exterior (Color: white)

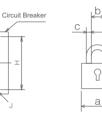


• IP30 rating (IEC60529)









Summary of Dimensions NEC30-SMX F-05MX 3P 104 105 39 90 78 10 25 111 ON, OFF, RESET RESET NFC60-CMXA NFC60-SMXA F-05MXA NFC60-HMXA 3P,4P 104 105 39 90 78 10 25 111 NFC100-CMXA NFC100-SMXA M4 Screw NFC100-HMXA F-1MXA 3P,4P 104 105 39 90 78 10 25 111 ON,OFF OFF $35 \sim 40$ $19\!\sim\!\!22$ $5\!\sim\!6$ or Φ5 NFC160-CMXA NFC160-SMXA NFC160-HMXA F-2MXA 3P.4P 104 105 39 90 78 10 35 126 NFC250-CMXA NFC250-SMXA NFC250-HMXA 150 194 NFC400-SMXA NFC400-HMXA (*1) F-4MXA 60 10 ЗP 173 108 112 44 NFC630-SMXA NFC630-HMXA (*1) 3P 60 F-6MXA 150 173 108 112 10 70 243

*1. The F handle is unavailable for 4P product of NFC400-SMXA、NFC400-HMXA、NFC630-SMXA、NFC630-HMXA.

3. Terminal cover

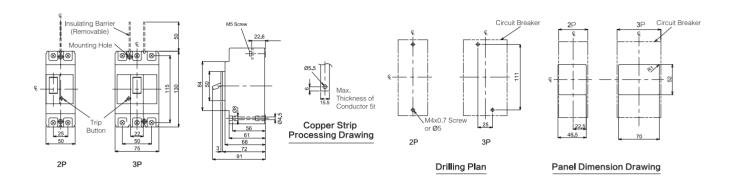
		Large Termina	al Cover (TC-L)	Small Termina	l Cover (TC-S)
Model Name	Number of Poles				
NFC30-SMX (ta)	2P	TCL-05MX2	50X65X32	TCS-05MX2	50X65X5
NFC60-CMXA NFC60-SMXA NFC60-HMXA ^(*2)	3P	TCL-05MX3	75X65X32	TCS-05MX3	75X65X5
NFC100-CMXA NFC100-SMXA NFC100-HMXA	4P	TCL-05MX4	100X65X32	TCS-05MX4	100X65X5
NFC160-CMXA NFC160-SMXA NFC160-HMXA (*2)	3P	TCL-2MX3	105X65X39	-	-
NFC250-CMXA NFC250-SMXA NFC250-HMXA	4P	TCL-2MX4	140X65X39	-	-
NFC400-SMXA NFC400-HMXA (*3) (*4)	3P	TCL-4MX3	171X98X110	-	-
NFC400-SMXA NFC400-HMXA (*4)	4P	TCL-4MX4	TCL-4MX4 240X98X110 -		-
(*3)	3P	TCL-6MX3	220X98X131	-	-
NFC630-SMXA NFC630-HMXA (*4)	4P	TCL-6MX4	290X98X131	-	-

*1. The outside dimension is A×B×C(mm). *2. Installation method: plug-in *3. Installation method: lock screw *4. The terminal cover cannot be installed while using the V or F type Operating Handle.

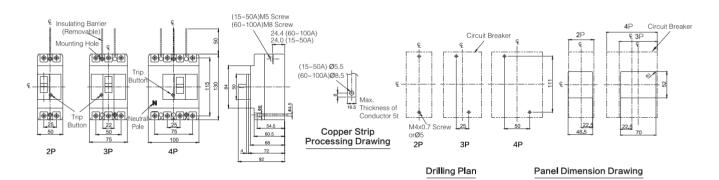
Characteristics and Dimensions>>>

Dimension

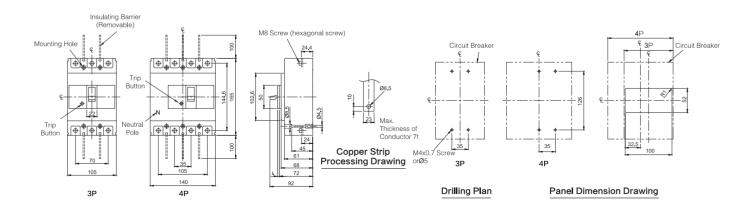
NFC30-SMX



NFC60-CMXA/SMXA/HMXA NFC100-CMXA/SMXA/HMXA



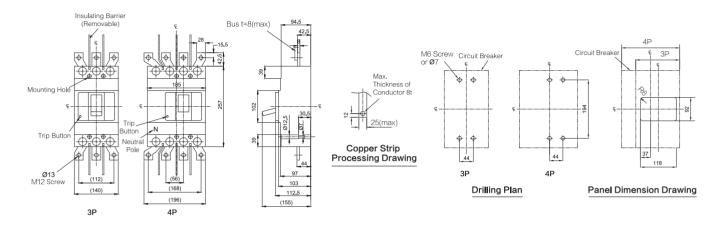
NFC160-CMXA/SMXA/HMXA NFC250-CMXA/SMXA/HMXA



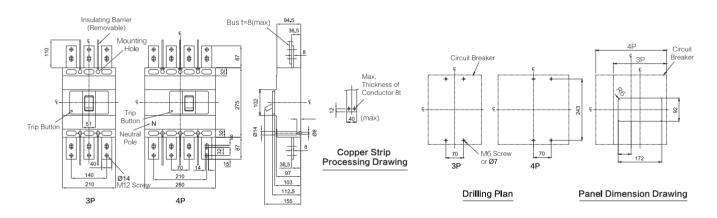


Dimension

NFC400-SMXA/HMXA

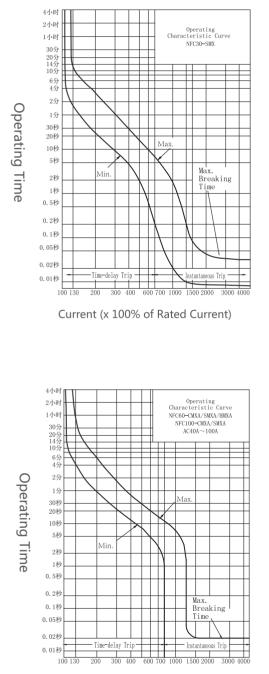


NFC630-SMXA/HMXA

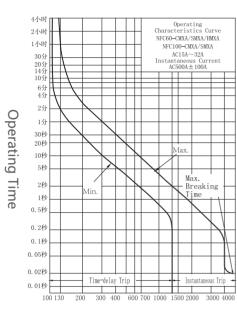


Characteristics and Dimensions>>>

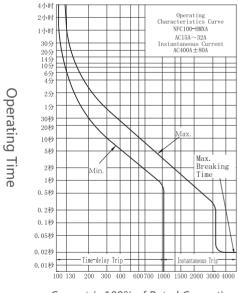
Operating Characteristics



Current (x 100% of Rated Current)



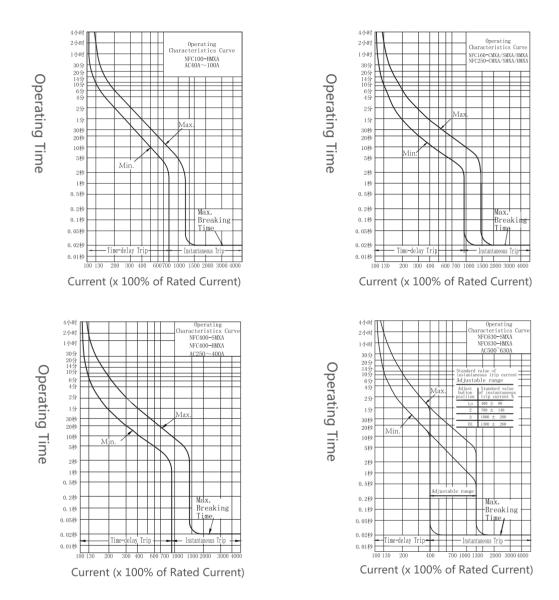
Current (x 100% of Rated Current)



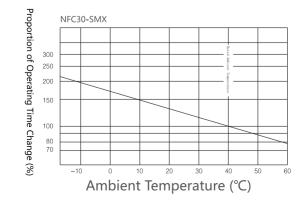
Current (x 100% of Rated Current)



Operating Characteristics



Temperature Characteristics Curve



Installation and Ordering Information >>>

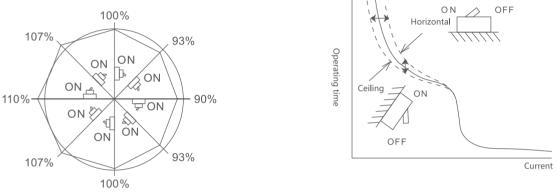
Installation direction

1. The trip way of NFC30-SMX is hydraulic-magnetic type.Please pay attention to the mounting position while installing it.

The time-delay trip characteristic varies depending on the mounting position. It is recommended to mount it vertically.

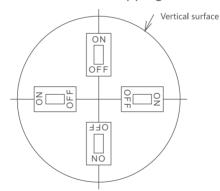
Model	
NFC30-SMX	

(1) Change Rate of Rated Current at Different Mounting Angles:



Mounting direction will change the effective height of magnetic core.

(2) Mounting methods which will not influence the tripping characteristic.



2. Thermal-magnetic type won't be affected by the mounting method:

Model							
NFC100-CMXA NFC160-CMXA NFC250-CMXA NFC400-SMXA	NFC60-SMXA NFC100-SMXA NFC160-SMXA NFC250-SMXA NFC400-HMXA NFC630-HMXA	NFC100-HMXA NFC160-HMXA					





Ordering Information

Model	Number of Poles	Rated Current (A)	Internal Accessories	Quantity	External Accessories
NFC60-CMXA	3P	60A	AL,AX,SHT(AC100-120V)	100台	F, V, TC-S, TC-L
· · · · · · · · · · · · · · · · · · ·	V	\checkmark			
NFC30-SMX	2,3P	3,4,6,10,15,20,25,30A	AL (Alarm Switch)		F (External Operating Handle)
NFC60-CMXA	2.3P	15,16,20,25,30,32,40,50,60A	AX (Auxiliary Switch)		V (External Operating Handle)
NFC60-SMXA	2,3,4P	15,16,20,25,30,32,40,50,60A	ALAX (Alarm Auxiliary Switch)		TC-S (Short Terminal Cover)
NFC60-HMXA	2,3,4P	15,16,20,25,30,32,40,50,60A	SHT (Shunt Trip)		TC-L (Long Terminal Cover)
NFC100-CMXA	2,3P	15,16,20,25,30,32,40,50,60,63,75,80,100A	(AC:100-120, 110-220,		
NFC100-SMXA	2,3,4P	15,16,20,25,30,32,40,50,60,63,75,80,100A	220-440, 380-440V;		
NFC100-HMXA	3,4P	15,16,20,25,30,32,40,50,60,63,75,80,100A	DC:24, 48, 100V)		
NFC160-CMXA	3P	125,140,150,160A	UVT (Undervoltage Trip)		
NFC160-SMXA	3,4P	125,140,150,160A	(AC:100-120, 110-120,		
NFC160-HMXA	3,4P	125,140,150,160A	25,140,150,160A 200-240, 220-240, 380-400,		
NFC250-CMXA	3P	175,200,225,250A	380-415, 440-460V)		
NFC250-SMXA	3,4P	175,200,225,250A		I	
NFC250-HMXA	3,4P	175,200,225,250A			
NFC400-SMXA	3,4P	250,300,350,400A			
NFC400-HMXA	3,4P	250,300,350,400A			
NFC630-SMXA	3,4P	500,600,630A			
NFC630-HMXA	3,4P	500,600,630A			

*1. The internal accessories for NFC30-SMX need to be assembled at factory. Please order together with the body model. The other accessories are all cassette-type and realized field installation.

*2. Please refer to page11~12 for accessories' model name.