

## **1. Detailed Specifications**

Molded-case Circuit Breakers

## NF-C (Economy type)

	Economy type)						
Frame (A)				63	125	250	
Type name				NF63-CV	NF125-CV	NF250-CV	
Image							
Rated current In (A)				3 4 (5) 6 10 (15) 16 20 25 (30) 32 40 50 (60) 63	50 (60) 63 (75) 80 100 125	(100) 125 150 175 200 225 250	
Number of poles				2 3	2 3	2 3	
Rated ambient temperature (°C)				40	40	40	
Rated insulation	on voltage Ui (V)			600	600	600	
	IEC 60947-2 (Icu/Ics)		690V				
Rated			500V 440V	2.5/2.5 2.5/2.5	7.5/4 10/5	10/8 15/12	
short-circuit		AC	440V 415V	2.5/2.5	10/5	25/19	
breaking		. //	400V	5/5	10/5	25/19	
capacities (kA)			380V	5/5	10/5	25/19	
			230V	7.5/7.5	30/15	36/27	
		DC	250V	2.5/2.5 (*5)	7.5/4 (*2)	15/12 (*2)	
Rated impulse withstand voltage Uimp (kV)			•	8	8	8	
Current (*1)				AC/DC compatible	AC/DC compatible	AC/DC compatible	
Suitability for isolation				Compatible	Compatible	Compatible	
Reverse connection				Possible	Possible	Possible	
Number of operating Without current				10,000	10,000	8,000	
cycles With current (440VAC)				6,000	6,000	4,000	
Utilization category				A 3	A 3	A 3	
Pollution degree				N/A	N/A	3N/A	
EMC environment condition (environment A or B)			a	50 75	60 90	105	
Overall dimensions (mm) $\begin{bmatrix} e^{a} \\ e^{c} \\ e^$		130	130	165			
				68	68	68	
			ca	90	90	92	
Mass of front-fa	face type (kg)			0.5 0.7	0.6 1.0	1.3 1.5	
Installation	Front		(F)	•	•	•	
and	Solderless (BOX) terminal (SL) Rear (B)			-	•	•	
				•	•	•	
	Plug-in (PM)			• (*3)		•	
Cassette-type accessories	Alarm switch (AL) Auxiliary switch (AX)			• (*3)	● (*3) ● (*3)	• (*3) • (*3)	
				• (*3)	● ( 3) ● (*3)	• ( 3) • (*3)	
	Undervoltage trip (UVT)			• (*3)	● (*3)	● (*3)	
	With lead-wire terminal block (SLT)			•	• ( 6)	•	
	Pre-alarm (PAL)			-	-	-	
		Closed	(S)	•	•	•	
	Enclosure	Dustproof	(I)	•	•	•	
		Waterproof	. (W)	- •	- •	- •	
	Electrical operation device (NFM)			-	- •	•	
	Mechanical interlock (MI) (*4)		nting	•	•	•	
		LC		•	•	•	
External	Handle lock device	HL		•	•	•	
accessories		HL-S (F)		•	•	•	
	External operating	(F) (V)		•			
	handle	(V) (S) (*4)		•			
	Terminal cover (TC-L, TC-S, TTC, BTC, PTC)					•	
	Rear stud (B-ST)				•	•	
	Plug-in (PM)			•	•	•	
	IEC 35mm rail mounting adapters			•	-	-	
				O alf als also attac	Self-declaration	TÜV approval	
CE marking				Self-declaration	Self-declaration		
CCC recognitio				Recognized	Recognized	Recognized	

Notes: \*1 The trip action characteristics differ between AC and DC for products that are compatible with both AC and DC.

\*2 Use two poles for three- and four-pole products. If wired as shown on the right, three and four poles can be used for up to 400 and 500VDC, respectively.

\*3 The cassette-type design makes it easy for customer to install. Available for installation on side (excluding UVT).

\*4 Not isolation-compatible.

\*5 Use two poles for three- and four-pole products. In this case, do not use the neutral pole of the four-pole products. Not available for use with connection as shown on the right.

\*6 Use two poles for three- and four-pole products. If wired as shown on the right, three and four poles can be used for up to 500 and 600VDC, respectively.

