

Detailed Specifications

●NF-C (Economy class)

Frame (A)	30	50	60	63	100	125			
Model	NF30-CS	NF63-CV			NF125-CV				
Image									
Rated current In (A)	3 5 10 15 20 30	3 4 (5) 6 10 (15) 16	(60)		63	50 (60) 63 (75) 80 100	125		
Rated ambient temperature 40°C (45°C for marine use)									
Number of poles	2 3	2 3	2 3	2 3	2 3	2 3			
Rated insulation voltage Ui (V)	500	600	600	600	600	600			
Rated short-circuit breaking capacities (kA)	AC	690V	-	-	-	-	-		
		500V	-	2.5/2.5	2.5/2.5	2.5/2.5	7.5/4	7.5/4	
		440V	-	2.5/2.5	2.5/2.5	2.5/2.5	10/5	10/5	
		415V	1.5/1.5	2.5/2.5	2.5/2.5	2.5/2.5	10/5	10/5	
		400V	1.5/1.5	5/5	5/5	5/5	10/5	10/5	
		380V	1.5/1.5	5/5	5/5	5/5	10/5	10/5	
		230V	2.5/2 (240V)	7.5/7.5	7.5/7.5	7.5/7.5	30/15	30/15	
		200V	2.5/2 (240V)	7.5/7.5	7.5/7.5	7.5/7.5	30/15	30/15	
		DC	250V	-	2.5/2.5 (*7)	2.5/2.5 (*7)	2.5/2.5 (*7)	7.5/4 (*4)	7.5/4 (*4)
		Rated impulse withstand voltage Uimp (kV)	4	8	8	8	8	8	
Current (*1)	AC	AC/DC compatible	AC/DC compatible	AC/DC compatible	AC/DC compatible	AC/DC compatible			
Suitability for isolation	-	Compatible	Compatible	Compatible	Compatible	Compatible			
Reverse connection	-	Possible	Possible	Possible	Possible	Possible			
Number of operating cycles	Without current	10,000	10,000	10,000	10,000	10,000	10,000		
	With current (440VAC)	6,000 (AC415V)	6,000	6,000	6,000	6,000	6,000		
Utilization category	A	A	A	A	A	A			
Pollution degree	2	3	3	3	3	3			
EMC environment condition (environment A or B)	N/A	N/A	N/A	N/A	N/A	N/A			
Overall dimensions (mm)		a	45 67.5	50 75	50 75	50 75	60 90 90	60 90 90	
		b	96	130	130	130	130	130	
		c	52	68	68	68	68	68	
		ca	67	90	90	90	90	90	
Mass of front-face type (kg)	0.25 0.35	0.45 0.65	0.5 0.7	0.5 0.7	0.6 0.9	0.6 0.9			
Front connection (F)	Page	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal			
Solderless (BOX) terminal (SL)		-	-	-	-	-			
Rear (B)	716	●Round stud (assembled in)	●Round stud	●Round stud	●Round stud	●Bar stud	●Bar stud		
Plug-in (PM)		-	-	-	-	-			
Alarm switch (AL)		●(*5)	●(*6)	●(*6)	●(*6)	●(*6)			
Auxiliary switch (AX)	725	●(*5)	●(*6)	●(*6)	●(*6)	●(*6)			
Shunt trip (SHT)		-	●(*6)	●(*6)	●(*6)	●(*6)			
Undervoltage trip (UVT)		-	●(*6)	●(*6)	●(*6)	●(*6)			
With lead-wire terminal block (SLT)	737	●	●	●	●	●			
Pre-alarm (PAL)	739	-	-	-	-	-			
Enclosure	Closed (S)	●	●	●	●	●			
	Dustproof (I)	-	●	●	●	●			
	Waterproof (W)	-	-	●	-	●	●		
	Electrical operation device (NFM)	756	-	-	-	-	-		
Mechanical interlock (MI) (*10)	Panel mounting	752	●	●	●	●	●		
	Breaker mounting		-	-	-	-	-		
Handle lock device	LC	750	●	●	●	●	●		
	HL		-	-	-	-	-		
External operating handle	HL-S		●	●	●	●	●		
	(F)	740	-	●	●	●	●		
(V)		-	●	●	●	●			
Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	744	●	●	●	●	●			
Rear stud (B-ST)	718	-	●	●	●	●			
Plug-in (PM)		-	●	●	●	●			
IEC 35mm rail mounting adapters	759	●	●	●	●	●			
CE marking	TUV approval	Self-declaration	Self-declaration	Self-declaration	Self-declaration	Self-declaration			
CCC recognition	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process			
Marine use approval (NK, LR, ABS, GL)	☆ (NK, LR, ABS)	☆	☆	☆	☆	☆			
Automatic tripping device	Hydraulic magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic			
Trip button	- (*2)	Equipped	Equipped	Equipped	Equipped	Equipped			
Page of Characteristics and dimensions	760		762			764			

- Notes: \*1 The trip action characteristics differ between AC and DC for products that are compatible with both AC and DC.  
 \*2 It is attached with the alarm switch.  
 \*3 In case of a current rating of 100A, it does not specify NK rating.  
 \*4 Use two poles for three- and four-pole products. In this case, do not use the neutral pole of the four-pole products. If wired as shown on the right, three and four poles can be used for up to 400 and 500VDC, respectively.  
 \*5 The standard lead drawing is performed laterally. Load drawing is also available.  
 \*6 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).  
 \*7 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.  
 \*8 Place an order of other models in conjunction with the circuit breaker.  
 \*9 Solid state relay output is option. Please specify if other output is necessary. (Standard type is thus SLT equipped).  
 \*10 Not isolation compatible, excluding 400 to 800A frame.

