

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)	IEC 60947-2 EN 60947-2 (Icu/Ics)	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				
	With current (440VAC)	6,000 (AC415V)	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			
		b	96	130	130	130	130			
		c	52	68	68	68	68			
		ca	67	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				
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	-	●	●	●	●				
	HL-S	-	●	●	●	●				
External operating handle	(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.

