

## 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	-	Yes	Yes	Yes	Yes	Yes			
Reverse connection	-	Available	Available	Available	Available	Available			
Number of operating cycles	Without current	10,000	10,000	10,000	10,000	10,000			
	With current (440VAC)	6,000 (415VAC)	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)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable			
Overall dimensions (mm)		a	45 67.5	50 75	50 75	50 75 90	60 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			
Installation and connections	Front connection (F)	Page	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal		
	Solderless (BOX) terminal (SL)	-	-	-	-	●	●		
	Rear (B)	98	●Round stud (assembled in)	●Round stud	●Round stud	●Round stud	●Bar stud	●Bar stud	
Cassette-type accessories	Plug-in (PM)	-	●	●	●	●	●		
	Alarm switch (AL)	115	● (*5)	● (*6)	● (*6)	● (*6)	● (*6)		
	Auxiliary switch (AX)	-	● (*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)	120	●	●	●	●	●		
	Pre-alarm (PAL)	122	-	-	-	-	-		
External accessories	Enclosure	Closed (S)	137	●	●	●	●	●	
		Dustproof (I)	-	-	●	●	●	●	
		Waterproof (W)	-	-	●	●	●	●	
	Electrical operation device (NFM)	-	140	-	-	●	●	●	
		Mechanical interlock (M) (*10)	136	-	●	●	●	●	
	Handle lock device	Panel mounting	-	●	●	●	●	●	
		LC	135	●	●	●	●	●	
		HL	-	●	●	●	●	●	
	External operating handle	HL-S	-	●	●	●	●	●	
		(F)	123	-	●	●	●	●	
Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	(V)	128	-	●	●	●	●		
Rear stud (B-ST)	98	-	●	●	●	●			
Plug-in (PM)	-	●	●	●	●	●			
IEC 35mm rail mounting adapters	143	●	●	●	●	●			
CE marking	TÜV approval	Self-declaration	Self-declaration	Self-declaration	Self-declaration	Self-declaration			
CCC recognition	Recognized	Recognized	Recognized	Recognized	Recognized	Recognized			
Marine use approval (*: Certified) (NK, LR, ABS, DNV-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	146		148			150			

- Notes:
- \*1 The operating characteristics are different between AC and DC.
  - \*2 Equipped if AL is installed.
  - \*3 For 100A of rated current, NK rating is not shown.
  - \*4 For 3-pole product, connect cables/busbars to any two terminals, and for 4-pole product, connect cables/busbars to any two terminals except N-pole.  
When connected cables/busbars as shown on the right, maximum of 400VDC can be applied to 3-pole product and maximum of 500VDC to 4-pole product.
  - \*5 For draw-out direction of lead wire, lateral direction is standard but for front connection, load-side direction is available if specified.
  - \*6 This accessory is cassette type and can be installed by customer. The frame size up to 250A can be closely installed, except for those with UVT.
  - \*7 For 3-pole product, connect cables/busbars to any two terminals, and for 4-pole product, connect cables/busbars to any two terminals except N-pole.  
Not available for use with connection as shown on the right.
  - \*8 Place an order with circuit breaker.
  - \*9 Solid state relay output is available as an option. Specify if this contact output is required. Lead-wire terminal block (SLT) is equipped as standard.
  - \*10 No isolation function except 400A to 800A frame.



