

## 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)		20 25 (30) 32 40 50							
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		
		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)	94	●Round stud (assembled in)	●Round stud	●Round stud	●Round stud	●Bar stud		
	Plug-in (PM)	-	-	-	-	-	-		
Cassette-type accessories	Alarm switch (AL)	104	●(*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)	116	●	●	●	●	●		
	Pre-alarm (PAL)	118	-	-	-	-	-		
External accessories	Enclosure	Closed (S)	●	●	●	●	●		
		Dustproof (I)	132	-	●	●	●	●	
		Waterproof (W)	-	-	●	●	●	●	
	Electrical operation device (NFM)	135	-	-	-	-	●	●	
		Mechanical interlock (M) (*10)	131	-	●	●	●	●	
	Handle lock device	LC	●	●	●	●	●		
		HL	129	●	●	●	●		
		HL-S	-	●	●	●	●		
	External operating handle	(F)	119	●	●	●	●		
		(V)	-	●	●	●	●		
Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	123	●	●	●	●	●			
Rear stud (B-ST)	96	-	●	●	●	●			
Plug-in (PM)	-	●	●	●	●	●			
IEC 35mm rail mounting adapters	139	●	●	●	●	-			
CE marking	TÜV 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	142		144		146				

- 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.

