

●NF-H / NF-R (High-performance class)

Frame (A)		250				400				630				800			
Model		NF250-HEV		NF400-HEV		NF400-REW		NF630-HEV		NF630-REW		NF800-HEV		NF800-REW			
Image																	
Rated current In (A)		80-160 125-250		Adjustable 200 225		Adjustable 200 225		Adjustable 300 350		Adjustable 300 350		Adjustable 400 450		Adjustable 400 450			
Rated ambient temperature 40°C (45°C for marine use)																	
Number of poles		3 4		3 4		3 4		3 4		3 4		3 4		3 4			
Rated insulation voltage Ui (V)		690		690		690		690		690		690		690			
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	690V	10/8	35/18	-	-	35/18	-	-	15/15	-	-	-	-		
			500V	50/38	50/50	70/35	50/50	70/35	50/50	70/35	50/50	70/35	70/35	70/35	70/35		
			440V	65/65	65/65	125/63	65/65	125/63	65/65	125/63	65/65	125/63	65/65	125/63	125/63		
			415V	70/70	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	125/63		
			400V	75/75	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	125/63		
			380V	75/75	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	70/70	125/63	125/63		
			230V	100/100	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	
			200V	100/100	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	100/100	150/75	
			DC	250V	-	-	-	-	-	-	-	-	-	-	-	-	-
			Rated impulse withstand voltage Uimp (kV)		8		8		8		8		8		8		8
Current		AC		AC		AC		AC		AC		AC		AC			
Suitability for isolation		Compatible		Compatible		Compatible		Compatible		Compatible		Compatible		Compatible			
Reverse connection		Possible		Possible		Possible		Possible		Possible		Possible		Possible			
Number of operating cycles	Without current	25,000		6,000		6,000		6,000		6,000		4,000		4,000			
	With current (440VAC)	10,000		1,000		1,000		1,000		1,000		500		500			
Utilization category		A		B		B		B		B		B		B			
Rated short time with stand current Icu (kA) at 0.25s		-		5		5		7.6		7.6		9.6		9.6			
Pollution degree		3		3		3		3		3		3		3			
EMC environment condition (environment A or B)		A		A		A		A		A		A		A			
Overall dimensions (mm)		a	105	140	140	185	140	140	185	140	185	210	280	210	210		
		b	165		257		257		257		257		275		275		
		c	68		103		103		103		103		103		103		
		ca	92		155		155		155		155		155		155		
Mass of front-face type (kg)		1.7 2.2		6.0 7.6		6.0		6.5 8.3		6.0		10.9 14.2		10.9			
Installation and connections	Front connection (F)	● Screw terminal		● Busbar terminal		● Busbar terminal		● Busbar terminal ● Busbar terminal		● Busbar terminal		● Busbar terminal ● Busbar terminal		● Busbar terminal			
	Solderless (BOX) terminal (SL)	●		-		-		-		-		-		-			
Cassette-type accessories	Rear (B)	● Bar stud ● Bar stud		● Bar stud		● Bar stud		● Bar stud ● Bar stud		● Bar stud		● Bar stud ● Bar stud		● Bar stud			
	Plug-in (PM)	●		●		●		●		●		●		●			
	Alarm switch (AL)	● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)			
	Auxiliary switch (AX)	● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)			
	Shunt trip (SHT)	● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)		● (*1)			
	Undervoltage trip (UVT)	● (*1)		●		●		●		●		●		●			
	With lead-wire terminal block (SLT)	●		●		●		●		●		●		●			
	Pre-alarm (PAL)	●		● (*2)		● (*2)		● (*2)		● (*2)		● (*2)		● (*2)			
	External accessories	Enclosure	Closed (S)	-		-		-		-		-		-		-	
			Dustproof (I)	●		-		-		-		-		-		-	
Waterproof (W)			●		-		-		-		-		-		-		
Electrical operation device (NFM)		Panel mounting	●		● (*3)		● (*3)		● (*3)		● (*3)		● (*3)		● (*3)		
		Breaker mounting	●		-		-		-		-		-		-		
Mechanical interlock (MI) (*4)		LC	●		-		-		-		-		-		-		
		HL	●		●		●		●		●		●		●		
		HL-S	●		●		●		●		●		●		●		
External operating handle		(F)	●		●		●		●		●		●		●		
		(V)	●		●		●		●		●		●		●		
Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	●		●		●		●		●		●		●				
Rear stud (B-ST)	●		●		●		●		●		●		●				
Plug-in (PM)	●		●		●		●		●		●		●				
IEC 35mm rail mounting adapters	-		-		-		-		-		-		-				
CE marking		Self-declaration		Self-declaration		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		Recognition in process			
Marine use approval (NK, LR, ABS, GL)		☆ (LR, ABS, GL)		-		☆		☆		☆		☆		☆			
Automatic tripping device		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)			
Trip button		Equipped		Equipped		Equipped		Equipped		Equipped		Equipped		Equipped			
Page of Characteristics and dimensions		774		778		778		784		784		786		786			

Notes: *1 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).
 *2 Solid state relay output is option. Please specify if other output is necessary. (Standard type is thus SLT equipped).
 *3 Place an order of other models in conjunction with the circuit breaker.
 *4 Not isolation compatible, excluding 400 to 800A frame.

