




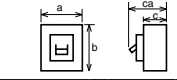


●NF-S (Standard class)

Frame (A)		250			250			400			400			600			630				
Model		NF250-SGV			NF250-SEV			NF400-SW			NF400-SEW			NF630-SW							
Image																					
Rated current In (A)		125-160 140-200			80-160 125-250			250 300 350 400			Adjustable 200 225 250 300 350 400			500 600			630				
Rated ambient temperature 40°C (45°C for marine use)		175-250																			
Number of poles		2	3	4	3	4		2	3	4	3	4		2	3	4	2	3	4		
Rated insulation voltage Ui (V)		690			690			690			690			690			690				
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	690V	8/8	8/8	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10	10/10		
			500V	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30		
			440V	36/36	36/36	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42	42/42		
			415V	36/36	36/36	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45		
			400V	36/36	36/36	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45	45/45		
			380V	36/36	36/36	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50		
			230V	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85		
			200V	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85	85/85		
			DC 250V	20/20 (300V) (*2)	—	40/40 (*2)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
			Rated impulse withstand voltage Uimp (kV)		8			8			8			8			8			8	
Current		AC/DC compatible			AC			AC/DC compatible			AC			AC/DC compatible			AC/DC compatible				
Suitability for isolation		Compatible			Compatible			Compatible			Compatible			Compatible			Compatible				
Reverse connection		Possible			Possible			Possible			Possible			Possible			Possible				
Number of operating cycles	Without current	25,000			25,000			6,000			6,000			6,000			6,000				
	With current (440VAC)	10,000			10,000			1,000			1,000			1,000			1,000				
Utilization category		A			A			A			B			A			A				
Rated short time with stand current low (kA) at 0.25s		—			—			—			5			—			—				
Pollution degree		3			3			3			3			3			3				
EMC environment condition (environment A or B)		N/A			A			N/A			A			N/A			N/A				
Overall dimensions (mm)			a	105	140	105	140	140	185	140	185	140	185	140	185	140	185	140	185		
			b	165	—	165	—	257	—	257	—	257	—	257	—	257	—	257	—		
			c	68	—	68	—	103	—	103	—	103	—	103	—	103	—	103	—		
			ca	92	—	92	—	155	—	155	—	155	—	155	—	155	—	155	—		
Mass of front-face type (kg)		1.4	1.6	2.0	1.7	2.2	4.6	5.2	6.8	6.0	7.6	5.4	6.2	8.0	5.4	6.2	8.0	5.4	6.2		
Installation and connections	Front connection (F)	Page	●			●Screw terminal			●Screw terminal			●Busbar terminal			●Busbar terminal			●Busbar terminal			
	Solderless (BOX) terminal (SL)		●			●			●			●			●			●			
	Rear (B)	716	●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			
	Plug-in (PM)		●			●			●			●			●			●			
	Alarm switch (AL)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			
	Auxiliary switch (AX)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			
	Shunt trip (SHT)	725	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			
	Undervoltage trip (UVT)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			
	With lead-wire terminal block (SLT)	737	●			●			●			●			●			●			
	Pre-alarm (PAL)	739	—			●			—			●(*5)			—			—			
External accessories	Enclosure	Closed (S)	753	●			—			—			—			—			—		
		Dustproof (I)		●			—			●			—			●			—		
		Waterproof (W)		●			—			●			—			●			—		
	Electrical operation device (NFM)	756	●			●			●(*6)			●(*6)			●(*6)			●(*6)			
	Mechanical interlock (MI) (*7)	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)		718	●			●			●			●			●			●			
IEC 35mm rail mounting adapters		759	—			—			—			—			—			—			
CE marking			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			
Marine use approval (NK, LR, ABS, GL)			☆ (LR, ABS, GL) —			☆ (LR, ABS, GL) —			☆ —			☆ —			☆ —			☆ —			
Automatic tripping device			Thermal-magnetic			Electronic (effective value detection)			Thermal-magnetic			Electronic (effective value detection)			Thermal-magnetic			Thermal-magnetic			
Trip button			Equipped			Equipped			Equipped			Equipped			Equipped			Equipped			
Page of Characteristics and dimensions			772			774			776			778			782						

- Notes: *1 The trip action characteristics differ between AC and DC for products that are compatible with both AC and DC.
*2 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.
*3 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).
*4 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.
*5 Solid state relay output is option. Please specify if other output is necessary.
*6 (Standard type is thus SLT equipped) AS for flush plate type, an outline differs from a standard.
*6 Place an order of other models in conjunction with the circuit breaker.
*7 Not isolation compatible. excluding 400 to 800A frame.

