

●NF-L / NF-H / NF-R (High-performance class)

Frame (A)	50			60			63			100			125			125			125			125														
Model	NF63-HV									NF125-HV						NF125-LGV			NF125-HGV			NF125-RGV														
Image																																				
Rated current In (A) Rated ambient temperature 40°C (45°C for marine use)	10	15	16	20	25	60			(63)			15	16	20	30	32	40	125			16-20	20-25	25-32	32-40	35-50	16-20	20-25	25-32	32-40	35-50	16-20	20-25	25-32	32-40	40-50	
Number of poles	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4
Rated insulation voltage Ui (V)	690			690			690			690			690			690			690			690			690			690			690			690		
Rated short-circuit breaking capacities (kA) IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	690V	2.5/2.5			2.5/2.5			2.5/2.5			10/8			10/8			30/23			30/23			36/36			50/38			-			-			
		500V	7.5/7.5			7.5/7.5			7.5/7.5			30/23			30/23			36/36			50/38			50/38			65/65			125/125			-			
		440V	10/8			10/8			10/8			50/38			50/38			50/38			50/38			50/50			70/70			150/150			-			
		415V	10/8			10/8			10/8			50/38			50/38			50/38			50/38			50/50			70/70			150/150			-			
		400V	10/8			10/8			10/8			50/38			50/38			50/38			50/38			50/50			75/75			150/150			-			
		380V	10/8			10/8			10/8			50/38			50/38			50/38			50/38			50/50			75/75			150/150			-			
		230V	25/19			25/19			25/19			100/75			100/75			100/75			90/90			100/100			100/100			150/150			-			
200V	25/19			25/19			25/19			100/75			100/75			100/75			90/90			100/100			100/100			150/150			-					
DC 250V	7.5/7.5 (*5)			7.5/7.5 (*5)			7.5/7.5 (*5)			-			-			-			20/20 (300V) (*2)			40/40 (300V) (*2)			-			-			-					
Rated impulse withstand voltage Uimp (kV)	8			8			8			8			8			8			8			8			8			8			8			8		
Current	AC/DC compatible (*1)			AC/DC compatible (*1)			AC/DC compatible (*1)			AC			AC			AC/DC compatible			AC/DC compatible			AC			AC			AC			AC					
Suitability for isolation	Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible					
Reverse connection	Possible			Possible			Possible			Possible			Possible			Possible			Possible			Possible			Possible			Possible			Possible					
Number of operating cycles	Without current			15,000			15,000			15,000			25,000			25,000			50,000			50,000			50,000			50,000			50,000					
	With current (440VAC)			8,000			8,000			8,000			10,000			10,000			30,000			30,000			30,000			30,000			30,000					
Utilization category	A			A			A			A			A			A			A			A			A			A			A					
Pollution degree	3			3			3			3			3			3			3			3			3			3			3					
EMC environment condition (environment A or B)	N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A			N/A					
Overall dimensions (mm)				a	50	75	100	a	50	75	100	a	50	75	100	a	90	120	a	90	120	a	105	140	a	105	140	a	105	140	a	105	140	a	105	140
	b	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130				
	c	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68				
	ca	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90				
Mass of front-face type (kg)	0.5	0.7	0.9	0.55	0.75	1.0	0.55	0.75	1.0	0.8	1.0	1.3	0.8	1.0	1.3	1.4	1.6	2.0	1.4	1.6	2.0	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.8	1.8	1.5	1.8	1.8			
Front connection (F)	●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal					
Solderless (BOX) terminal (SL)	●			●			●			●			●			●			●			●			●			●			●					
Rear (R)	●Round stud			●Round stud			●Round stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud					
Plug-in (PM)	●			●			●			●			●			●			●			●			●			●			●					
Alarm switch (AL)	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)					
Auxiliary switch (AX)	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)					
Shunt trip (SHT)	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)					
Undervoltage trip (UVT)	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)					
With lead-wire terminal block (SLT)	●			●			●			●			●			●			●			●			●			●			●					
Pre-alarm (PAL)	-			-			-			-			-			-			-			-			-			-			-					
Enclosure	Closed (S)	●			●			●			●			●			●			●			●			●			●			●				
	Dustproof (I)	-			-			-			-			-			-			-			-			-			-			-				
	Waterproof (W)	-			-			-			-			-			-			-			-			-			-			-				
Electrical operation device (NFM)	-			-			-			-			-			-			-			-			-			-			-					
Mechanical interlock (MI) (*4)	Panel mounting	●			●			●			●			●			●			●			●			●			●			●				
	Breaker mounting	-			-			-			-			-			-			-			-			-			-			-				
Handle lock device	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			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			Recognition in process			Recognition in process			Recognition in process								
Marine use approval (NK, LR, ABS, GL)	☆			☆			☆			☆			☆			☆			☆			☆			☆			☆			☆					
Automatic tripping device	Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic			Thermal-magnetic								
Trip button	Equipped			Equipped			Equipped			Equipped			Equipped			Equipped			Equipped			Equipped			Equipped			Equipped								
Page of Characteristics and dimensions	762									764						772			772			772														

- 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 500 and 600VDC, respectively.
 *3 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).
 *4 Not isolation compatible, excluding 400 to 800A frame.
 *5 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.

