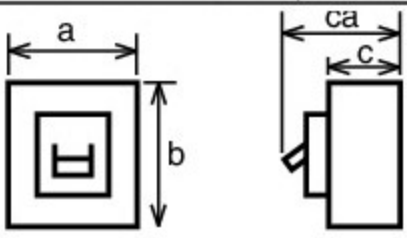
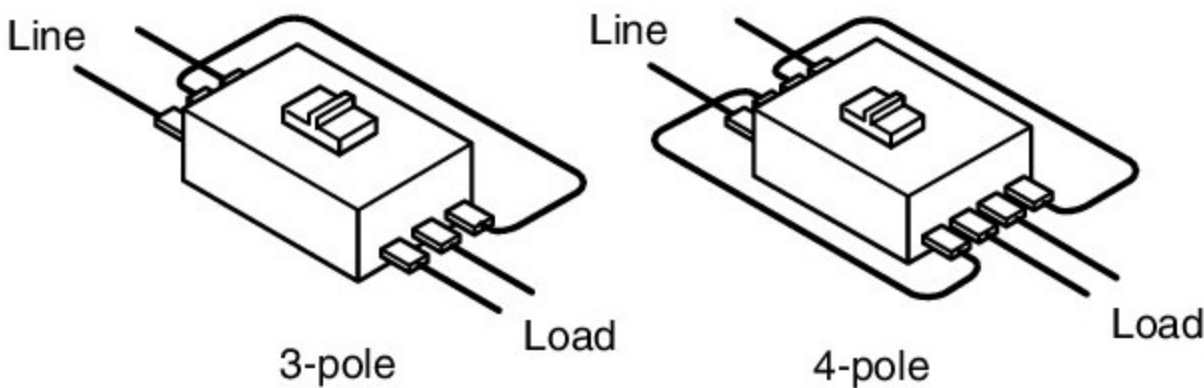


●NF-C (Economy class)

Frame (A)				30		50		60		63		100		125		
Model				NF30-CS				NF63-CV				NF125-CV				
Image																
Rated current In (A) Rated ambient temperture 40°C (45°C for marine use)				3	5 10 15 20 30	3 4 (5) 6 10 (15) 16 20 25 (30) 32 40 50	(60)		63		50 (60) 63 (75) 80 100	125				
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		10,000		
		With current (440VAC)		6,000 (AC415V)		6,000		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	60	90	
			b	96		130		130		130		130		130		
			c	52		68		68		68		68		68		
			ca	67		90		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		●Screw terminal		
	Solderless (BOX) terminal (SL)		716	—		—		—		—		●		●		
	Rear (B)			●Round stud (assembled in)		●Round stud		●Round stud		●Round stud		●Bar stud		●Bar stud		
	Plug-in (PM)			—		●		●		●		●		●		
Cassette-type accessories	Alarm switch (AL)		725	● (*5)		● (*6)		● (*6)		● (*6)		● (*6)		● (*6)		
	Auxiliary switch (AX)			● (*5)		● (*6)		● (*6)		● (*6)		● (*6)		● (*6)		
	Shunt trip (SHT)			—		● (*6)		● (*6)		● (*6)		● (*6)		● (*6)		
	Undervoltage trip (UVT)			—		● (*6)		● (*6)		● (*6)		● (*6)		● (*6)		
External accessories	With lead-wire terminal block (SLT)		737	●		●		●		●		●		●		
	Pre-alarm (PAL)		739	—		—		—		—		—		—		
	Enclosure	Closed (S)	753	●		●		●		●		●		●		
		Dustproof (I)		—		●		●		●		●		●		
		Waterproof (W)		—		—	●	—	●	—	●	—	●	—	●	
	Electrical operation device (NFM)		756	—		—		—		—		—		—		
	Mechanical interlock (MI) (*10)	Panel mounting	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)			—		●		●		●		●		●		
IEC 35mm rail mounting adapters		759	●		●		●		●		—		—			
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				760		762		762		764		764		764		

- 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.

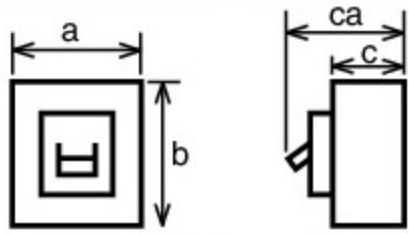


●NF-C (Economy class)

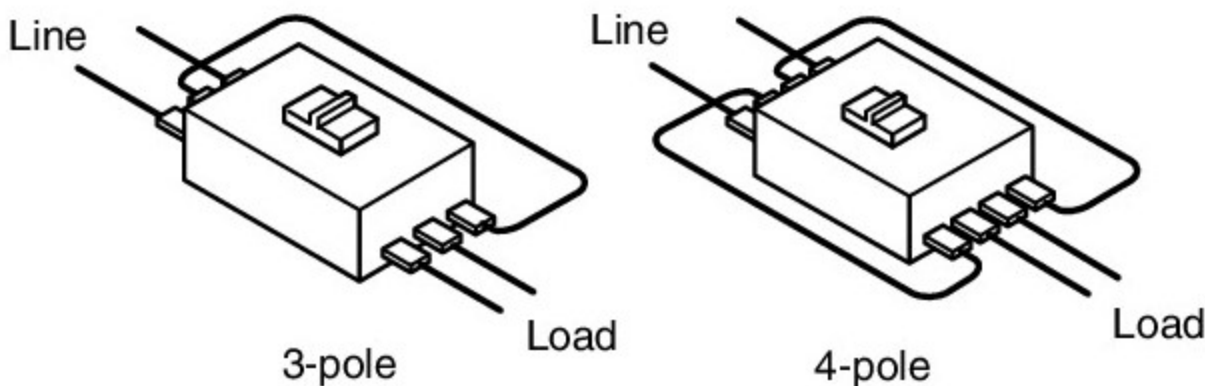
	225		250		400		600		630		800					
	NF250-CV				NF400-CW				NF630-CW				NF800-CEW			
																
	(100) 125 150 175 200 225 (*3)		250		250 300 350 400				500 600		630		Adjustable 400 450 500 600 700 800			
	2	3	2	3	2	3	2	3	2	3	2	3	3			
	600		600		690				690		690		690			
	—		—		—				—		—		—			
	10/8		10/8		15/8				18/9		18/9		18/9			
	15/12		15/12		25/13				36/18		36/18		36/18			
	25/19		25/19		36/18				36/18		36/18		36/18			
	25/19		25/19		36/18				36/18		36/18		36/18			
	25/19		25/19		40/20				40/20		40/20		40/20			
	36/27		36/27		50/25				50/25		50/25		50/25			
	36/27		36/27		50/25				50/25		50/25		50/25			
	15/12 (*4)		15/12 (*4)		20/10 (*4)				20/10 (*4)		20/10 (*4)		—			
	8		8		8				8		8		8			
	AC/DC compatible		AC/DC compatible		AC/DC compatible				AC/DC compatible		AC/DC compatible		AC			
	Compatible		Compatible		Compatible				Compatible		Compatible		Compatible			
	Possible		Possible		Possible				Possible		Possible		Possible			
	8,000		8,000		6,000				6,000		6,000		4,000			
	4,000		4,000		1,000				1,000		1,000		500			
	A		A		A				A		A		B			
	3		3		3				3		3		3			
	N/A		N/A		N/A				N/A		N/A		A			
	105		105		140				140		140		210			
	165		165		257				257		257		275			
	68		68		103				103		103		103			
	92		92		134				134		134		155			
	1.3	1.5	1.3	1.5	4.4	5.0	5.2	6.0	5.2	6.0	5.2	6.0	10.9			
	●Screw terminal		●Screw terminal		●Busbar terminal				●Busbar terminal		●Busbar terminal		●Busbar terminal			
	●		●		—				—		—		—			
	●Bar stud		●Bar stud		●Bar stud				●Bar stud		●Bar stud		●Bar stud			
	●		●		●				●		●		●			
	●(*6)		●(*6)		●(*6)				●(*6)		●(*6)		●(*6)			
	●(*6)		●(*6)		●(*6)				●(*6)		●(*6)		●(*6)			
	●(*6)		●(*6)		●(*6)				●(*6)		●(*6)		●(*6)			
	●(*6)		●(*6)		●				●		●		●			
	●		●		●				●		●		●			
	—		—		—				—		—		●(*9)			
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	●		●		●(*8)				●(*8)		●(*8)		●(*8)			
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Remarks: 1. Products with rated current parenthesized are produced when an order is placed.
2. Specify “P-LT” when using a plug-in product with a lead-wire terminal block.
3. The circuit breaker has the rated short-circuit breaking capacity specified in the shaded cells.

●NF-S (Standard class)

Frame (A) Model				30				32				50				60				63				
				NF32-SV								NF63-SV												
Image																								
Rated current In (A) Rated ambient temperture 40°C (45°C for marine use)				3 4 (5) 6 10 15 16 20 25 (30)				32				3 4 (5) 6 10 (15) 16 20 25 (30) 32 40 50				(60)				63				
Number of poles				2 3				2 3				2 3 4				2 3 4				2 3 4				
Rated insulation voltage Ui (V)				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				7.5/7.5				7.5/7.5				7.5/7.5				
			440V	2.5/2.5				2.5/2.5				7.5/7.5				7.5/7.5				7.5/7.5				
			415V	2.5/2.5				2.5/2.5				7.5/7.5				7.5/7.5				7.5/7.5				
			400V	5/5				5/5				7.5/7.5				7.5/7.5				7.5/7.5				
			380V	5/5				5/5				7.5/7.5				7.5/7.5				7.5/7.5				
			230V	7.5/7.5				7.5/7.5				15/15				15/15				15/15				
			200V	7.5/7.5				7.5/7.5				15/15				15/15				15/15				
			DC	2.5/2.5 (*5)				2.5/2.5 (*5)				7.5/7.5 (*5)				7.5/7.5 (*5)				7.5/7.5 (*5)				
Rated impulse withstand voltage Uimp (kV)				8				8				8				8				8				
Current (*1)				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				15,000				15,000				
	With current (440VAC)			6,000				6,000				6,000				8,000				8,000				
Utilization category				A				A				A				A				A				
Pollution degree				3				3				3				3				3				
EMC environment condition (environment A or B)				N/A				N/A				N/A				N/A				N/A				
Overall dimensions (mm)			a	50 75				50 75				50 75 100				50 75 100				50 75 100				
			b	130				130				130				130				130				
			c	68				68				68				68				68				
			ca	90				90				90				90				90				
			Mass of front-face type (kg)				0.45 0.65				0.45 0.65				0.5 0.7 0.9				0.55 0.75 1.0				0.55 0.75 1.0	
Installation and connections	Front connection (F)		Page	●Screw terminal				●Screw terminal				●Screw terminal				●Screw terminal				●Screw terminal				
	Solderless (BOX) terminal (SL)			—				—				—				—				—				
	Rear (B)		716	●Bar stud				●Round stud				●Round stud				●Round stud				●Round stud				
	Plug-in (PM)			●				●				●				●				●				
	Alarm switch (AL)		725	● (*4)				● (*4)				● (*4)				● (*4)				● (*4)				
	Auxiliary switch (AX)			● (*4)				● (*4)				● (*4)				● (*4)				● (*4)				
	Shunt trip (SHT)			● (*4)				● (*4)				● (*4)				● (*4)				● (*4)				
	Undervoltage trip (UVT)			● (*4)				● (*4)				● (*4)				● (*4)				● (*4)				
	With lead-wire terminal block (SLT)		737	●				●				●				●				●				
Pre-alarm (PAL)		739	—				—				—				—				—					
External accessories	Enclosure	Closed (S)	753	●				●				●				●				●				
		Dustproof (I)		●				●				●				●				●				
		Waterproof (W)		— ●				— ●				— ●				— ●				— ●				
	Electrical operation device (NFM)		756	—				—				—				—				—				
	Mechanical interlock (MI) (*7)	Panel mounting	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)			●				●				●				●				●					
IEC 35mm rail mounting adapters		759	●				●				●				●				●					
CE marking				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				
Marine use approval (NK, LR, ABS, GL)				☆				☆				☆				☆				☆				
Automatic tripping device				Thermal-magnetic				Thermal-magnetic				Thermal-magnetic				Thermal-magnetic				Thermal-magnetic				
Trip button				Equipped				Equipped				Equipped				Equipped				Equipped				
Page of Characteristics and dimensions				762				762				762				762				762				

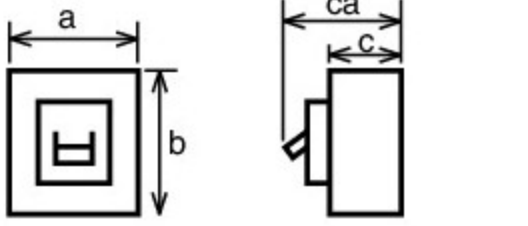
- Notes: *1 The trip action characteristics differ between AC and DC for products that are compatible with both AC and DC.
*2 In case of a current rating of 100A, it does not specify NK rating.
*3 Use two poles for three- and four-pole products. In this case, do not use the neutral pole of the four-pole products. If wired as shown on the right, three and four poles can be used for up to 400 and 500VDC, respectively. (In case of NF250-SV, three and four poles can be used for up to 500 and 600VDC)
*4 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).
*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.
*6 Place an order of other models in conjunction with the circuit breaker.
*7 Not isolation compatible. excluding 400 to 800A frame.



●NF-S (Standard class)

	100			125			125			125			160			225			250		
	NF125-SV						NF125-SGV			NF125-SEV			NF160-SGV			NF250-SV					
																					
	(15) 16 20 (30) 32 40 50 (60) 63 (75) 80 100			125			16-20 20-25 25-32 32-40 35-50 45-63 56-80 70-100 90-125			16-32 32-63 63-125			125-160			(100) 125 150 160 175 200 225 (*2)			250		
	2	3	4	2	3	4	2	3	4	3	4	2	3	4	2	3	4	2	3	4	
	690			690			690			690			690			690			690		
	8/8			8/8			8/8			8/8			8/8			8/8			8/8		
	18/18			18/18			30/30			30/30			30/30			30/30			30/30		
	25/25			25/25			36/36			36/36			36/36			36/36			36/36		
	30/30			30/30			36/36			36/36			36/36			36/36			36/36		
	30/30			30/30			36/36			36/36			36/36			36/36			36/36		
	30/30			30/30			36/36			36/36			36/36			36/36			36/36		
	50/50			50/50			85/85			85/85			85/85			85/85			85/85		
	50/50			50/50			85/85			85/85			85/85			85/85			85/85		
	40/40 (*3)			40/40 (*3)			20/20 (300V) (*3)			–			20/20 (300V) (*3)			20/20 (300V) (*3)			20/20 (300V) (*3)		
	8			8			8			8			8			8			8		
	AC/DC compatible			AC/DC compatible			AC/DC compatible			AC			AC/DC compatible			AC/DC compatible (*1)			AC/DC compatible (*1)		
	Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible		
	Possible			Possible			Possible			Possible			Possible			Possible			Possible		
	25,000			25,000			50,000			25,000			40,000			25,000			25,000		
	10,000			10,000			30,000			10,000			15,000			10,000			10,000		
	A			A			A			A			A			A			A		
	3			3			3			3			3			3			3		
	N/A			N/A			N/A			A			N/A			N/A			N/A		
	60	90	120	60	90	120	105		140	105	140	105		140	105		140	105		140	
	130			130			165			165			165			165			165		
	68			68			68			68			68			68			68		
	90			90			92			92			92			92			92		
	0.7	1.0	1.3	0.7	1.0	1.3	1.4	1.6	2.0	1.7	2.2	1.4	1.6	2.0	1.4	1.6	2.0	1.4	1.6	2.0	
	●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal		
	●			●			●			●			●			●			●		
	●Bar stud			●Bar stud			●Bar stud			●Bar stud	●Bar stud	●Bar stud			●Bar stud			●Bar stud			
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NF-S (Standard class)

Frame (A) Model			250 NF250-SGV			250 NF250-SEV			400 NF400-SW			400 NF400-SEW			600 NF630-SW			630					
Image																							
Rated current In (A) Rated ambient temperature 40°C (45°C for marine use)			125-160 140-200 175-250			80-160 125-250			250 300 350 400			Adjustable 200 225 250 300 350 400			500 600			630					
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				
			500V	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				
			415V	36/36			36/36			45/45			50/50			50/50			50/50				
			400V	36/36			36/36			45/45			50/50			50/50			50/50				
			380V	36/36			36/36			50/50			50/50			50/50			50/50				
			230V	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					
DC	250V	20/20 (300V) (*2)			—			40/40 (*2)			—			40/40 (*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 Icw (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						
			b	165			165			257			257			257							
			c	68			68			103			103			103							
			ca	92			92			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					
Installation and connections	Front connection (F)	Page	●			●Screw terminal		●Screw terminal		●Busbar 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		●Bar stud		●Bar stud					
	Plug-in (PM)		●			●		●		●			●			●			●				
Cassette-type accessories	Alarm switch (AL)	725	● (*3)			● (*3)		●		● (*3)			●		● (*3)			●		●			
	Auxiliary switch (AX)		● (*3)			●		● (*3)			●		● (*3)			●		●					
	Shunt trip (SHT)		● (*3)			●		● (*3)			●		● (*3)			●		●					
	Undervoltage trip (UVT)		● (*3)			●		●			●		●			●		●					
	With lead-wire terminal block (SLT)	737	●			●		●		●			●		●			●		●			
External accessories	Pre-alarm (PAL)	739	—			●		—			● (*5)			—			—						
	Enclosure	Closed (S)	●	—	●	—	—			—			—			—							
		Dustproof (I)	●	—	●	—	●		—		●		—		●		—						
		Waterproof (W)	●	—	●	—	●		—		●		—		●		—						
	Electrical operation device (NFM)	756	●			●			● (*6)			● (*6)			● (*6)			● (*6)					
	Mechanical interlock (MI) (*7)	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)	744	●		●	●	●		●		●		●		●		●						
	Rear stud (B-ST)	718	●		●	●	●		●		●		●		●		●						
	Plug-in (PM)		●		●	●	●		●		●		●		●		●						
	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								