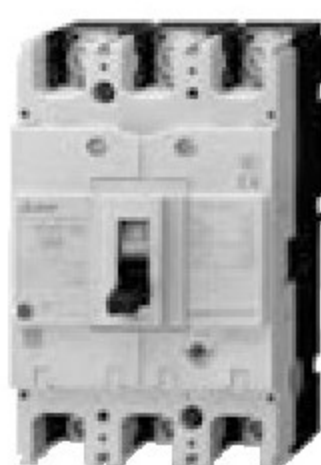
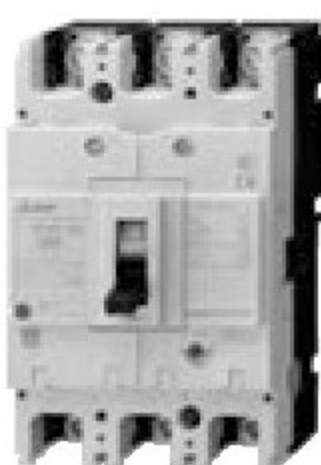
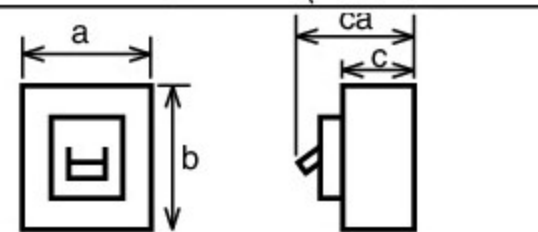
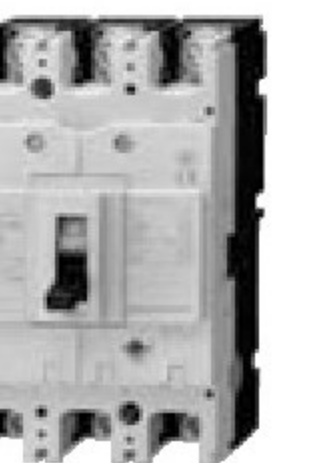


NF-L / NF-H / NF-R (High-performance class)

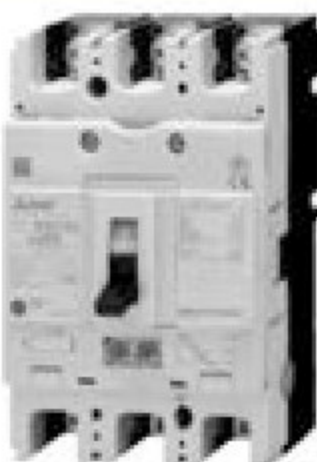
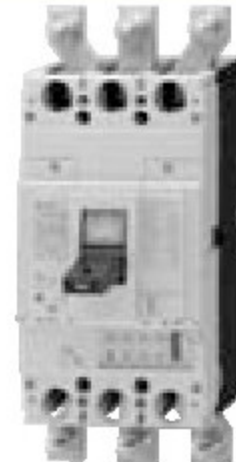
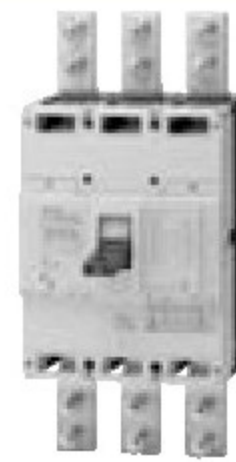
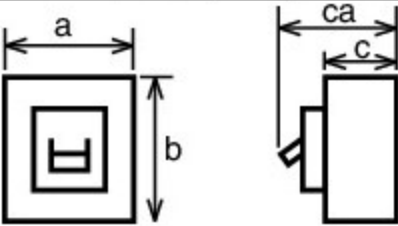
Frame (A) Model			50			60			63			100			125			125			125			125														
			NF63-HV									NF125-HV						NF125-LGV			NF125-HGV			NF125-RGV														
Image																																						
Rated current In (A) Rated ambient temperature 40°C (45°C for marine use)			10	15	16	20	25	60			(63)			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	40-50						
			30	32	40	50							50	60	63	75	80	100				45-63	56-80	70-100	90-125	45-63	56-80	70-100	90-125	50-63	63-80	80-100	100-125					
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							
Rated insulation voltage Ui (V)			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	2.5/2.5	10/8	10/8	10/8	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	7.5/7.5	30/23	30/23	30/23	30/23	30/23	30/23	30/23	36/36	50/38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			440V	10/8	10/8	10/8	10/8	50/38	50/38	50/38	50/38	50/38	50/38	50/38	50/50	65/65	125/125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			415V	10/8	10/8	10/8	10/8	50/38	50/38	50/38	50/38	50/38	50/38	50/38	50/50	70/70	150/150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			400V	10/8	10/8	10/8	10/8	50/38	50/38	50/38	50/38	50/38	50/38	50/38	50/50	75/75	150/150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			380V	10/8	10/8	10/8	10/8	50/38	50/38	50/38	50/38	50/38	50/38	50/38	50/50	75/75	150/150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			230V	25/19	25/19	25/19	25/19	100/75	100/75	100/75	100/75	100/75	100/75	100/75	90/90	100/100	150/150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
			200V	25/19	25/19	25/19	25/19	100/75	100/75	100/75	100/75	100/75	100/75	100/75	90/90	100/100	150/150	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	DC	250V	7.5/7.5 (*5)	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								
Current			AC/DC compatible (*1)			AC/DC compatible (*1)			AC/DC compatible (*1)			AC			AC			AC/DC compatible			AC/DC compatible			AC/DC compatible			AC											
Suitability for isolation			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible								
Reverse connection			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	50	75	100	50	75	100	90	120	90	120	105	140	105	140	105	140	105	140	105	140	105	140	105	140	105	140						
			b	130			130			130			130			130			165			165			165			165			165							
			c	68			68			68			68			68			68			68			68			68			68							
			ca	90			90			90			90			90			92			92			92			92			92							
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	1.4	1.6	2.0	1.5	1.8										
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			●Round stud			●Round stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud											
Cassette-type accessories	Plug-in (PM)	725	●			●			●			●			●			●			●			●			●			●								
	Alarm switch (AL)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)								
	Auxiliary switch (AX)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)								
Cassette-type accessories	Shunt trip (SHT)	725	●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)								
	Undervoltage trip (UVT)		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)								
	With lead-wire terminal block (SLT)		●			●			●			●			●			●			●			●			●			●								
Cassette-type accessories	Pre-alarm (PAL)	739	—			—			—			—			—			—			—			—			—			—								
	Enclosure	Closed (S)	753	●			—			●			—			●			—			—			—			—			—							
		Dustproof (I)		●			—			●			—			●			—			●			—			—			—							
Waterproof (W)		—			●			—			—			●			—			●			—			—			—									
External accessories	Electrical operation device (NFM)	756	—			—			—			●			●			●			●			●			●			●								
	Mechanical interlock (MI) (*4)	Panel mounting	752	●			●			●			●			●			●			●			●			●			●							
		Breaker mounting		●			—			●			—			●			—			●			—			●			—							
External accessories	Handle lock device	LC	750	●			●			●			●			●			●			●			●			●			●							
		HL		●			●			●			●			●			●			●			●			●										
		HL-S		●			●			●			●			●			●			●			●			●										
External operating handle	(F)	740	●			●			●			●			●			●			●			●			●			●								
	(V)		●			●			●			●			●			●			●			●			●			●								
	Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	744	●			●			●			●			●			●			●			●			●			●								
External accessories	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			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)			☆			—			☆			—			☆			—			☆ (LR, ABS, GL)			—			☆ (LR, ABS, GL)			—			☆ (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			762			762			764			764			772			772			772			772			772								

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

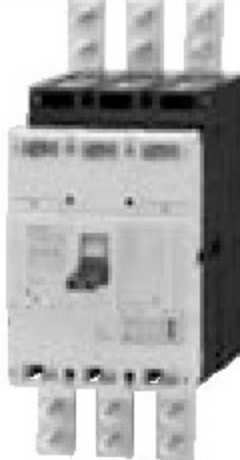
	125			160			160			225			250			250			250			250		
	NF125-HEV			NF160-LGV			NF160-HGV			NF250-HV			NF250-LGV			NF250-HGV			NF250-RGV					
																								
	16-32 32-63 63-125			125-160			125-160			125 150 160 175 200 225			250			125-160 140-200 175-250			125-160 140-200 175-250			125-160 160-200 200-250		
	3	4		2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	4	2	3	
	690			690			690			690			690			690			690			690		
	10/8			8/8			10/8			10/8			10/8			8/8			10/8			-		
	50/38			36/36			50/38			50/38			50/38			36/36			50/38			-		
	65/65			50/50			65/65			65/65			65/65			50/50			65/65			125/125		
	70/70			50/50			70/70			70/70			70/70			50/50			70/70			150/150		
	75/75			50/50			75/75			75/75			75/75			50/50			75/75			150/150		
	75/75			50/50			75/75			75/75			75/75			50/50			75/75			150/150		
	100/100			90/90			100/100			100/100			100/100			90/90			100/100			150/150		
	100/100			90/90			100/100			100/100			100/100			90/90			100/100			150/150		
	-			20/20 (300V) (*2)			40/40 (300V) (*2)			40/40 (300V) (*2)			40/40 (300V) (*2)			20/20 (300V) (*2)			40/40 (300V) (*2)			-		
	8			8			8			8			8			8			8			8		
	AC			AC/DC compatible			AC/DC compatible			AC/DC compatible (*1)			AC/DC compatible (*1)			AC/DC compatible			AC/DC compatible			AC		
	Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible			Compatible		
	Possible			Possible			Possible			Possible			Possible			Possible			Possible			Possible		
	25,000			40,000			40,000			25,000			25,000			25,000			25,000			25,000		
	10,000			15,000			15,000			10,000			10,000			10,000			10,000			10,000		
	A			A			A			A			A			A			A			A		
	3			3			3			3			3			3			3			3		
	A			N/A			N/A			N/A			N/A			N/A			N/A			N/A		
	105	140		105	140		105	140		105	140		105	140		105	140		105	140		105		
	165			165			165			165			165			165			165			165		
	68			68			68			68			68			68			68			68		
	92			92			92			92			92			92			92			92		
	1.7	2.2		1.4	1.6	2.0	1.4	1.6	2.0	1.4	1.6	2.0	1.4	1.6	2.0	1.4	1.6	2.0	1.4	1.6	2.0	1.5	1.8	
	●Screw terminal	●Screw terminal		●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Screw terminal			●Busbar terminal		
	●	●		●			●			●			●			●			●			●		
	●Bar stud	●Bar stud		●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud			●Bar stud		
	●	●		●			●			●			●			●			●			●		
	●(*3)	●		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)		
	●(*3)	●		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)		
	●(*3)	●		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)		
	●(*3)	●		●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)			●(*3)		
	●	●		●			●			●			●			●			●			●		
	●	●		-			-			-			-			-			-			-		
	-	-		●			-			-			-			●			-			-		
	●	-		●			-			-			-			●			-			-		
	●	-		●			-			-			-			●			-			-		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	-		●			●			-			●			-			●			-		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●			●			●		
	●	●		●			●			●			●			●								

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

Frame (A)				250		400		630		800								
Model				NF250-HEV		NF400-HEW		NF400-REW		NF630-HEW		NF630-REW		NF800-HEW		NF800-REW		
Image																		
Rated current In (A) Rated ambient temperture 40°C (45°C for marine use)				80-160 125-250		Adjustable 200 225 250 300 350 400		Adjustable 200 225 250 300 350 400		Adjustable 300 350 400 500 600 630		Adjustable 300 350 400 500 600 630		Adjustable 400 450 500 600 700 800		Adjustable 400 450 500 600 700 800		
Number of poles				3	4	3	4	3	3	4	3	3	4	3				
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							
			440V	65/65	65/65	125/63		65/65	125/63	65/65	125/63							
			415V	70/70	70/70	125/63		70/70	125/63	70/70	125/63							
			400V	75/75	70/70	125/63		70/70	125/63	70/70	125/63							
			380V	75/75	70/70	125/63		70/70	125/63	70/70	125/63							
			230V	100/100	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							
	DC	250V	—	—		—	—		—	—		—	—					
Rated impulse withstand voltage Uimp (kV)				8		8		8		8		8		8				
Current				AC		AC		AC		AC		AC		AC				
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		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	210	280	210					
		b	165		257		257		257		275		275					
		c	68		103		103		103		103		103					
		ca	92		155		155		155		155		155					
		cb	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)	Page	●Screw terminal		●Busbar terminal		●Busbar terminal		●Busbar terminal		●Busbar terminal		●Busbar terminal		●Busbar terminal			
	Solderless (BOX) terminal (SL)	716	●		—		—		—		—		—		—			
	Rear (B)		●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	●(*1)	●	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)	●(*1)			
	Auxiliary switch (AX)		●(*1)	●	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)				
	Shunt trip (SHT)		●(*1)	●	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)	●	●(*1)	●(*1)				
	Undervoltage trip (UVT)		●(*1)	●	●		●		●		●		●					
	With lead-wire terminal block (SLT)	737	●	●	●	●	●	●	●	●	●	●	●	●				
Pre-alarm (PAL)	739	●		●(*2)		●(*2)		●(*2)		●(*2)		●(*2)		●(*2)				
External accessories	Enclosure	Closed (S)	—		—		—		—		—		—		—			
		Dustproof (I)	●		—		—		—		—		—		—			
		Waterproof (W)	●		—		—		—		—		—		—			
	Electrical operation device (NFM)	756	●		●(*3)		●(*3)		●(*3)		●(*3)		●(*3)		●(*3)			
	Mechanical interlock (MI) (*4)	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		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)	—	☆	—	☆	☆	—	☆	—	☆	—	☆			
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)				
Trip button				Equipped		Equipped		Equipped		Equipped		Equipped		Equipped				
Page of Characteristics and dimensions				774		778		778		784		784		786		786		

●NF-U (Ultra current-limiting class)

	125 NF125-UV			250 NF250-UV			400 NF400-UEW			800 NF800-UEW		
												
	15 20 30 40 50 60 75 100 125			125 150 175 200 225 250			Adjustable 200 225 250 300 350 400			Adjustable 400 450 500 600 700 800		
	2	3	4	2	3	4	3	4	3	4	3	4
	690			690			690			690		
	10/10			15/15			-			35/35		
	200/200			200/200			170/170			170/170		
	200/200			200/200			200/200			200/200		
	200/200			200/200			200/200			200/200		
	200/200			200/200			200/200			200/200		
	200/200			200/200			200/200			200/200		
	200/200			200/200			200/200			200/200		
	200/200			200/200			200/200			200/200		
	-			-			-			-		
	8			8			8			8		
	AC			AC			AC			AC		
	Compatible			Compatible			Compatible			Compatible		
	Possible			Possible			Possible			Possible		
	25,000			25,000			6,000			4,000		
	10,000			10,000			1,000			500		
	A			A			B			B		
	-			-			5			9.6		
	3			3			3			3		
	N/A			N/A			A			A		
	90	120		105	140		140	280		210	280	
	191			240			297	322		322		
	68			68			200			200		
	90			92			252			252		
	1.35	1.5	1.9	2.5	2.7	3.7	16.2	25.4		27.6	33.7	
	●Screw terminal			●Screw terminal			●Busbar terminal			●Busbar terminal		
	●Bar stud			●Bar stud			-			-		
	●Bar stud			●Bar stud			●Bar stud			●Bar stud		
	●	-		●	-		●	-		●	-	
	● (*1)	●		● (*1)	●		● (*1)			● (*1)		
	● (*1)	●		● (*1)	●		● (*1)			● (*1)		
	● (*1)	●		● (*1)	●		● (*1)			● (*1)		
	● (*1)	●		● (*1)	●		●			●		
	●			●			●			●		
	-			-			● (*2)			● (*2)		
	-			-			-			-		
	-			-			-			-		
	-			-			-			-		
	●			●			● (*3)			● (*3)		
	●			●			●			●		
	-			-			-			-		
	●			●			-			-		
	●			●			●			●		
	●			●			●			●		
	●			●			●			●		
	●			●			●			●		
	●			●			●			●		
	-			-			●	-		-		
	-			-			●			●		
	-			-			-			-		
	●	-		●	-		-			-		
	-			-			-			-		
	Self-declaration			Self-declaration			Self-declaration			Self-declaration		
	-			-			-			-		
	☆	-		☆	-		☆	-		☆	-	
	Thermal-magnetic			Thermal-magnetic			Electronic (effective value detection)			Electronic (effective value detection)		
	Equipped			Equipped			Equipped			Equipped		
	766			770			780			790		

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.