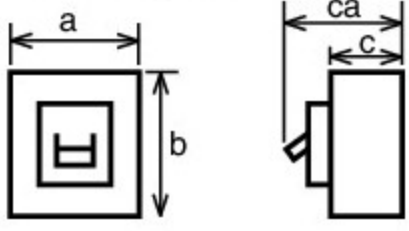


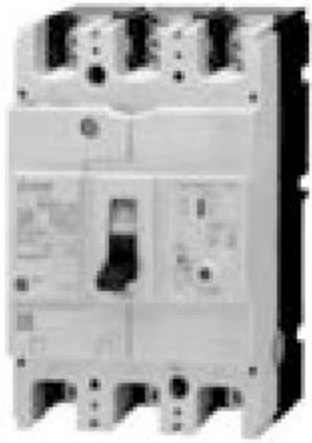
●NV-C (Economy class) Harmonic Surge Ready

Frame (A)				50		60		63		100		125		
Model				NV63-CV						NV125-CV				
Image														
Rated current In (A) Rated ambient temperture 40°C				(5) (10) (15) 16 20 25 (30) 32 40 50		(60)		63		(60) 63 (75) 80 100		125		
Number of poles				2	3	2	3	2	3	3		3		
Phase line (*1)				1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W		3ϕ3W, 1ϕ3W, 1ϕ2W		
Rated operational voltage Ue (V) (*2)			AC	100-240	100-440	100-240	100-440	100-240	100-440	100-440		100-440		
High-speed type	Rated current sensitivity (mA)			30	30,100/200/500 selectable	30	30,100/200/500 selectable	30	30,100/200/500 selectable	30,100/200/500 selectable		30,100/200/500 selectable		
	Max. operating time (s)		at IΔn	0.1		0.1		0.1		0.1		0.1		
			at 5IΔn	0.04		0.04		0.04		0.04		0.04		
Time-delay type	Rated current sensitivity (mA)			-		-		-		(100/200/500 selectable)		(100/200/500 selectable)		
	Max. operating time (s) (*3)			-		-		-		(0.45/1.0/2.0 selectable)		(0.45/1.0/2.0 selectable)		
	Internal non-operating (s) (or more)			-		-		-		(0.1/0.5/1.0)		(0.1/0.5/1.0)		
Earth leakage indication system				Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)			AC	440V	-	2.5/2.5	-	2.5/2.5	-	2.5/2.5	10/5	10/5	
					415V	-	2.5/2.5	-	2.5/2.5	-	2.5/2.5	10/5	10/5	
					400V	-	5/5	-	5/5	-	5/5	10/5	10/5	
					230V	7.5/7.5		7.5/7.5		7.5/7.5		30/15	30/15	
					200V	7.5/7.5		7.5/7.5		7.5/7.5		30/15	30/15	
					100V	7.5/7.5		7.5/7.5		7.5/7.5		30/15	30/15	
Rated impulse withstand voltage Uimp (kV)				6		6		6		6		6		
Current				AC		AC		AC		AC		AC		
Suitability for isolation				Compatible		Compatible		Compatible		Compatible		Compatible		
Reverse connection (below 230VAC)				Possible		Possible		Possible		Possible		Possible		
Number of operating cycles		Without current		10,000		10,000		10,000		10,000		10,000		
		With current		6,000		6,000		6,000		6,000		6,000		
Utilization category				A		A		A		A		A		
Pollution degree				2		2		2		2		2		
EMC environment condition (environment A or B)				A		A		A		A		A		
Overall dimensions (mm)				a	75	75	75	75	75	90	90			
				b	130	130	130	130	130	130	130			
				c	68	68	68	68	68	68	68			
				ca	90	90	90	90	90	90	90			
				Mass of front-face type (kg)				0.7	0.75	0.7	0.75	0.7	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)			716	-		-		-		-			
	Rear (B)		●Round stud		●Round stud		●Round stud		●Bar stud		●Bar stud			
	Plug-in (PM)		-		-		-		-		-			
Cassette-type accessories	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)		
	Earth leakage alarm switch (EAL)			-		-		-		-		-		
	With lead-wire terminal block (SLT)		737	●		●		●		●		●		
	Test button module (TBM)		738	● (*5)		● (*5)		● (*5)		● (*5)		● (*5)		
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				800						802				

Notes: *1 If using a 3-pole earth leakage circuit breaker as a 1-pole 2-phase device, connect the left and right poles and not the central pole. When wiring to single-phase 3-wire, connect the neutral line to the central pole.
*2 In case of time delay type, rated voltage is 200-440VAC.
*3 When the operating time are 0.45, 1.0 and 2.0 seconds, the Earth Leakage circuit breaker operates between 0.15 and 0.45 seconds, between 0.6 and 1.0 seconds and between 1.2 and 2.0 seconds respectively.
*4 The cassette type design makes it easy for customer to install. Available for installation on side below 250A frame (excluding UVT).
*5 Standard type is SLT equipped.

*6 Place an order of other models in conjunction with the circuit breaker.
*7 Not isolation compatible, excluding 400 to 630A frame.
*8 AC100V does not acquire the CCC certification.

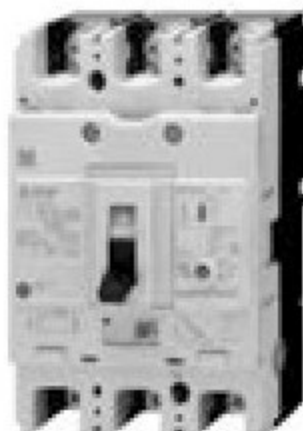
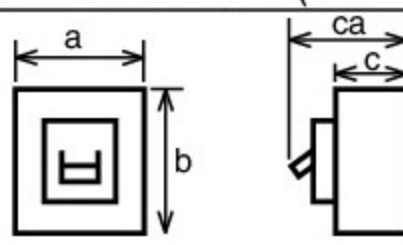
●NV-C (Economy class) Harmonic Surge Ready

	225	250	400	600	630
	NV250-CV		NV400-CW	NV630-CW	
					
	125 150 175 200 225	250	250 300 350 400	500 600	(630)
	3	3	3	3	3
	3ϕ3W, 1ϕ3W, 1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W	3ϕ3W, 1ϕ3W, 1ϕ2W
	100-440	100-440	100-440	200-440	200-440
	30,100/200/500 selectable	30,100/200/500 selectable	(30),100/200/500 selectable	–	–
	0.1	0.1	0.1	–	–
	0.04	0.04	0.04	–	–
	(100/200/500 selectable)	(100/200/500 selectable)	(100/200/500 selectable)	(100/200/500 selectable)	(100/200/500 selectable)
	(0.45/1.0/2.0 selectable)	(0.45/1.0/2.0 selectable)	(0.45/1.0/2.0 selectable)	(0.45/1.0/2.0 selectable)	(0.45/1.0/2.0 selectable)
	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)
	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)
	15/12	15/12	25/13	36/18	36/18
	25/19	25/19	36/18	36/18	36/18
	25/19	25/19	36/18	36/18	36/18
	36/27	36/27	50/25	50/25	50/25
	36/27	36/27	50/25	50/25	50/25
	36/27	36/27	50/25	–	–
	6	6	8	8	8
	AC	AC	AC	AC	AC
	Compatible	Compatible	Compatible	Compatible	Compatible
	Possible	Possible	Possible	Possible	Possible
	8,000	8,000	6,000	6,000	6,000
	4,000	4,000	1,000	1,000	1,000
	A	A	A	A	A
	2	2	3	3	3
	A	A	A	A	A
	105	105	140	140	140
	165	165	257	257	257
	68	68	103	103	103
	92	92	134	155	155
	1.7	1.7	6.1	6.9	6.9
	●Screw terminal	●Screw terminal	●Busbar terminal	●Busbar terminal	●Busbar terminal
	–	–	–	–	–
	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud
	–	–	–	–	–
	● (*4)	● (*4)	● (*4)	● (*4)	● (*4)
	● (*4)	● (*4)	● (*4)	● (*4)	● (*4)
	● (*4)	● (*4)	● (*4)	● (*4)	● (*4)
	● (*4)	● (*4)	●	●	●
	–	–	–	–	–
	●	●	●	●	●
	● (*5)	● (*5)	● (*5)	● (*5)	● (*5)
	–	–	–	–	–
	–	–	–	–	–
	●	●	● (*6)	● (*6)	● (*6)
	●	●	●	●	●
	●	●	●	●	●
	●	●	–	–	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	●	●	●	●	●
	–	–	–	–	–
	–	–	–	–	–
	TÜV approval	TÜV approval	Self-declaration	Self-declaration	Self-declaration
	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process
	–	–	–	–	–
	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic
	Equipped	Equipped	Equipped	Equipped	Equipped
	804		808	812	

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.

4.	Rated operational voltage	Applicable circuit voltage	Available voltage range
	100-240V	100/110/200/220/230/240V	85-264V
	100-440V	100/110/200/220/240/254/265/380/400/415/440V	85-484V
	200-440V	200/220/240/254/265/380/400/415/440V	170-484V

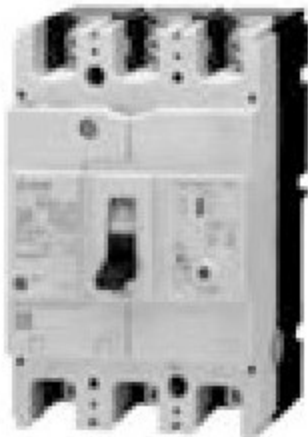
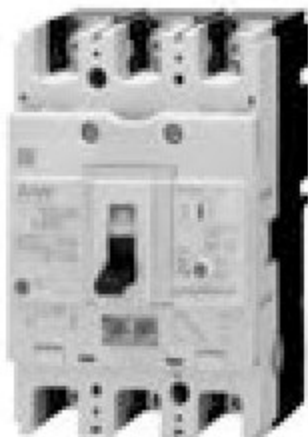
●NV-S (Standard class) Harmonic Surge Ready

Frame (A)			30	32	50	60	63	100	125	125					
Model			NV32-SV		NV63-SV			NV125-SV		NV125-SEV					
Image															
Rated current In (A) Rated ambient temperture 40°C			(5) 6 10 (15) 16 20 25 (30)	(32)	(5) (10) (15) 16 20 25 (30) 32 40 50	(60)	63	(15) 16 20 (30) 32 40 50 (60) 63 (75) 80 100 (*3)	125	63-125					
Number of poles			3	3	3	3	3	3	4	3	4				
Phase line (*1)			3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ4W	3φ3W, 1φ3W, 1φ2W	3φ4W				
Rated operational voltage Ue (V) (*2)			AC	100-440	100-440	100-440	100-440	100-440	200-440	100-440	200-440	100-440			
High-speed type	Rated current sensitivity (mA)		30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	(30),100/200/500 selectable					
	Max. operating time (s)	at IΔn	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1					
		at 5IΔn	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04					
Time-delay type	Rated current sensitivity (mA)		—	—	—	—	—	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)					
	Max. operating time (s) (*4)		—	—	—	—	—	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)					
	Internal non-operating (s) (or more)		—	—	—	—	—	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)					
Earth leakage indication system			Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)					
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	440V	5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	25/25	25/25	36/36				
			415V	5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	30/30	30/30	36/36				
			400V	5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	30/30	30/30	36/36				
			230V	10/10	10/10	15/15	15/15	15/15	50/50	50/50	85/85				
			200V	10/10	10/10	15/15	15/15	15/15	50/50	50/50	85/85				
			100V	10/10	10/10	15/15	15/15	15/15	50/50	—	50/50	—	85/85		
Rated impulse withstand voltage Uimp (kV)			6	6	6	6	6	6	6	6					
Current			AC	AC	AC	AC	AC	AC	AC	AC					
Suitability for isolation			Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible					
Reverse connection (below 230VAC)			Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible					
Number of operating cycles	Without current		10,000	10,000	15,000	15,000	15,000	25,000	25,000	25,000					
	With current		6,000	6,000	8,000	8,000	8,000	10,000	10,000	10,000					
Utilization category			A	A	A	A	A	A	A	A					
Rated short time withstand current Icu (kA) at 0.25s			—	—	—	—	—	—	—	—					
Pollution degree			2	2	2	2	2	2	2	2					
EMC environment condition (environment A or B)			A	A	A	A	A	A	A	A					
Overall dimensions (mm)			a	75	75	75	75	75	90	120	90	120	105	140	
			b	130	130	130	130	130	130	130	130	165			
			c	68	68	68	68	68	68	68	68	68			
			ca	90	90	90	90	90	90	90	90	92			
Mass of front-face type (kg)			0.75	0.75	0.75	0.8	0.8	1.1	1.4	1.1	1.4	1.9	2.5		
Installation and connections	Front connection (F)	Page	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●					
	Solderless (BOX) terminal (SL)		—	—	—	—	—	—	—	—					
	Rear (B)	716	●Round stud	●Round stud	●Round stud	●Round stud	●Round stud	●Bar stud	●Bar stud	●Bar stud					
	Plug-in (PM)		—	—	—	—	—	—	—	—					
Cassette-type accessories	Alarm switch (AL)		●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●		
	Auxiliary switch (AX)		●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●		
	Shunt trip (SHT)	725	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●		
	Undervoltage trip (UVT)		●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●		
	Earth leakage alarm switch (EAL)		—	—	—	—	—	—	—	—	—	—			
	With lead-wire terminal block (SLT)	737	●	●	●	●	●	●	●	●	●	●			
	Test button module (TBM)	738	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)				
External accessories	Enclosure	Closed (S)	753	—	—	—	—	—	—	—	●	—			
		Dustproof (I)		—	—	—	—	—	—	—	●	—			
		Waterproof (W)		—	—	—	—	—	—	—	●	—			
	Electrical operation device (NFM)	756	—	—	—	—	—	●	●	●					
	Mechanical interlock (MI) (*8)	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	Self-declaration	Self-declaration					
CCC recognition			Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognized						
Marine use approval (NK, LR, ABS, GL)			—	—	—	—	—	—	—	—					
Automatic tripping device			Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Electronic (effective value detection)					
Trip button			Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped					
Page of Characteristics and dimensions			800			800			802		806				

Notes: *1 If using a 3-pole earth leakage cirsuit breaker as a 1-pole 2-phase device, connect the left and right poles and not the central pole. When wiring to single-phase 3-wire, connect the neutral line to the central pole.
*2 In case of time delay type, rated voltage is 200-440VAC.
*3 In case of time delay type, rated current is produced with 20 amp. or more.
*4 When the operating time are 0.45, 1.0 and 2.0 seconds, the Earth Leakage circuit breaker operates between 0.15 and 0.45 seconds, between 0.6 and 1.0 seconds and between 1.2 and 2.0 seconds respectively.

*5 Cassette type accessories are field mountable type. It can respond to adhesion attachment of a breaker as standard below 250A frame. (excluding UVT.)
*6 Standard type is SLT equipped.
*7 Place an order of other models in conjunction with the circuit breaker.
*8 Not isolation compatible, excluding 400 to 800A frame.
*9 AC100V does not acquire the CCC certification.

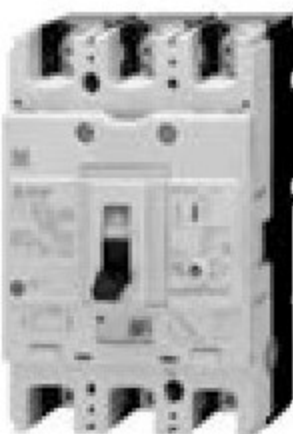
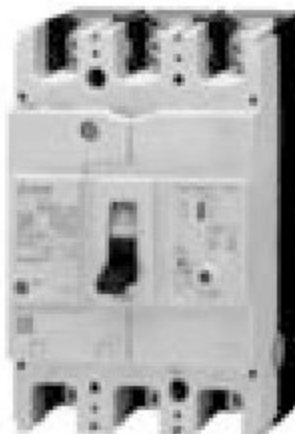
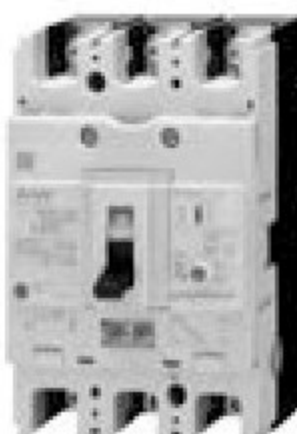
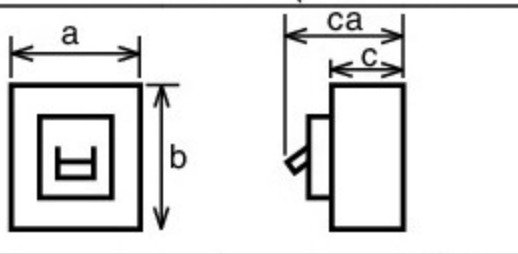
●NV-S (Standard class) Harmonic Surge Ready

	225	250	250	400	400	600	630	630	800
	NV250-SV		NV250-SEV	NV400-SW	NV400-SEW	NV630-SW		NV630-SEW	NV800-SEW
									
	125 150 175 200 225	250	125-250	250 300 350 400	Adjustable 200 225 250 300 350 400	500 600	(630)	Adjustable 300 350 400 500 600 630	Adjustable 400 450 500 600 700 800
	3	3	3	3	34	3	3	34	3
	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W3φ4W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W3φ4W	3φ3W, 1φ3W, 1φ2W
	100-440	100-440	100-440	100-440	100-440	200-440	200-440	100-440	200-440
	(30),100/200/500 selectable	(30),100/200/500 selectable	(30),100/200/500 selectable	(30),100/200/500 selectable	(30),100/200/500 selectable	–	–	–	–
	0.1	0.1	0.1	0.1	0.1	–	–	–	–
	0.04	0.04	0.04	0.04	0.04	–	–	–	–
	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	100/200/500selectable	100/200/500selectable	(100/200/500selectable)	100/200/500selectable
	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	0.45/1.0/2.0selectable	0.45/1.0/2.0selectable	(0.45/1.0/2.0selectable)	0.45/1.0/2.0selectable
	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	0.1/0.5/1.0	0.1/0.5/1.0	(0.1/0.5/1.0)	0.1/0.5/1.0
	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)
	36/36	36/36	36/36	42/42	42/42	42/42	42/42	42/42	42/42
	36/36	36/36	36/36	45/45	50/50	50/50	50/50	50/50	50/50
	36/36	36/36	36/36	45/45	50/50	50/50	50/50	50/50	50/50
	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	85/85	85/85
	85/85	85/85	85/85	85/85	85/85	–	–	85/85	–
	6	6	6	8	8	8	8	8	8
	AC	AC	AC	AC	AC	AC	AC	AC	AC
	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible
	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible	Possible
	25,000	25,000	25,000	6,000	6,000	6,000	6,000	6,000	4,000
	10,000	10,000	10,000	1,000	1,000	1,000	1,000	1,000	500
	A	A	A	A	B	A	A	B	A
	–	–	–	–	5	–	–	7.6	9.6
	2	2	2	3	3	3	3	3	3
	A	A	A	A	A	A	A	A	A
	105	105	105	140	140185	140	140	140185	210
	165	165	165	257	257	257	257	257	275
	68	68	68	103	103	103	103	103	103
	92	92	92	155	155	155	155	155	155
	1.9	1.9	1.9	6.4	6.28.2	6.9	6.9	7.18.9	15.3
	●Screw terminal	●Screw terminal	●	●Busbar terminal	●Busbar terminal	●Busbar terminal	●Busbar terminal	●Busbar terminal	●Busbar terminal
	–	–	–	–	–	–	–	–	–
	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud
	–	–	–	–	–	–	–	–	–
	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	●(*5)	●(*5)	●(*5)	●	●	●	●	●	●
	–	–	–	–	–	–	–	–	–
	●	●	●	●	●	●	●	●	●
	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)
	–	–	●	–	–	–	–	–	–
	–	–	●	–	●–	–	–	●–	–
	–	–	●	–	●–	–	–	●–	–
	●	●	●	●(*7)	●(*7)	●(*7)	●(*7)	●(*7)	●(*7)
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	–	–	–	–	–	–
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	–	–	–	–	●	–	–	●	–
	–	–	–	–	–	–	–	–	–
	TÜV approval	TÜV approval	Self-declaration	Self-declaration	Self-declaration	Self-declaration	Self-declaration	Self-declaration	Self-declaration
	Recognition in process	Recognition in process	Recognized	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process	Recognition in process
	–	–	–	–	–	–	–	–	–
	Thermal-magnetic	Thermal-magnetic	Electronic (effective value detection)	Thermal-magnetic	Electronic (effective value detection)	Thermal-magnetic	Thermal-magnetic	Electronic (effective value detection)	Electronic (effective value detection)
	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped
	804		806	808	810	812		814	816

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.

4. Rated operational voltage	Applicable circuit voltage	Available voltage range
100-440V	100/110/200/220/240/254/265/380/400/415/440V	85-484V
200-440V	200/220/240/254/265/380/400/415/440V	160-484V

●NV-H / NV-R (High-performance class) Harmonic Surge Ready

Frame (A)				50	60	63	100	125	125	225	250	250				
Model				NV63-HV			NV125-HV			NV125-HEV		NV250-HV		NV250-HEV		
Image																
Rated current In (A) Rated ambient temperture 40°C				(15) 16 20 (30) 32 40 50	(60)	63	(15) 16 20 (30) 32 40 50 (60) 63 (75) 80 100 (*3)	125		63-125		125 150 175 200 225	250	125-250		
Number of poles				3	3	3	3	4	3	4	3	4	3	3		
Phase line (*1)				3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ4W	3φ3W, 1φ3W, 1φ2W	3φ4W	3φ3W, 1φ2W	3φ4W	3φ3W, 1 φ3W, 1 φ2W	3φ3W, 1 φ3W, 1 φ2W	3φ3W, 1 φ2W	
Rated operational voltage Ue (V) (*2)				AC	100-440	100-440	100-440	100-440	200-440	100-440	200-440	100-440	100-440	100-440	100-440	
High-speed type	Rated current sensitivity (mA)			30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	(30),100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	30,100/200/500 selectable	(30),100/200/500 selectable		
	Time-delay type	Max. operating time (s)		at IΔn at 5IΔn	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	0.1 0.04	
Rated current sensitivity (mA)			—	—	—	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)	(100/200/500selectable)			
Max. operating time (s) (*4)			—	—	—	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)	(0.45/1.0/2.0selectable)		
Internal non-operating (s) (or more)			—	—	—	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)	(0.1/0.5/1.0)		
Earth leakage indication system				Mechanical type (button)			Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)	Mechanical type (button)		
Rated short-circuit breaking capacities (kA)	IEC 60947-2 EN 60947-2 (Icu/Ics)	AC	440V	10/8	10/8	10/8	50/38	50/38	65/65	65/65	65/65	65/65	65/65	65/65		
			415V	10/8	10/8	10/8	50/38	50/38	70/70	70/70	70/70	70/70	70/70	70/70		
			400V	10/8	10/8	10/8	50/38	50/38	75/75	75/75	75/75	75/75	75/75	75/75		
			230V	25/19	25/19	25/19	100/75	100/75	100/100	100/100	100/100	100/100	100/100	100/100		
			200V	25/19	25/19	25/19	100/75	100/75	100/100	100/100	100/100	100/100	100/100	100/100		
			100V	25/19	25/19	25/19	100/75	—	100/75	—	100/100	100/100	100/100	100/100	100/100	
Rated impulse withstand voltage Uimp (kV)				6	6	6	6	6	6	6	6	6	6			
Current				AC	AC	AC	AC	AC	AC	AC	AC	AC	AC	AC		
Suitability for isolation				Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible	Compatible		
Reverse connection (below 230VAC)				—	—	—	—	—	—	—	—	—	—	—		
Number of operating cycles	Without current			15,000	15,000	15,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000		
	With current			8,000	8,000	8,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000		
Utilization category				A	A	A	A	A	A	A	A	A	A	A		
Rated short time withstand current Icu (kA) at 0.25s				—	—	—	—	—	—	—	—	—	—	—		
Pollution degree				2	2	2	2	2	2	2	2	2	2	2		
EMC environment condition (environment A or B)				A	A	A	A	A	A	A	A	A	A	A		
Overall dimensions (mm)				a	75	75	75	90	120	90	120	105	140	105	105	
				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)				0.75	0.8	0.8	1.1	1.4	1.1	1.4	1.9	2.5
Installation and connections	Front connection (F)			Page	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●Screw terminal	●	●Screw terminal	●Screw terminal	●			
	Solderless (BOX) terminal (SL)				—	—	—	—	—	—	—	—	—	—		
	Rear (B)			716	●Round stud	●Round stud	●Round stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud	●Bar stud		
	Plug-in (PM)				—	—	—	—	—	—	—	—	—	—		
	Cassette-type accessories	Alarm switch (AL)				●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●(*5)	●(*5)	
		Auxiliary switch (AX)				●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●(*5)	●(*5)	
		Shunt trip (SHT)			725	●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●(*5)	●(*5)	
		Undervoltage trip (UVT)				●(*5)	●(*5)	●(*5)	●(*5)	●	●(*5)	●	●(*5)	●(*5)	●(*5)	
		Earth leakage alarm switch (EAL)				—	—	—	—	—	—	—	—	—	—	
With lead-wire terminal block (SLT)			737	●	●	●	●	●	●	●	●	●	●			
Test button module (TBM)			738	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)			
External accessories		Enclosure	Closed (S)		—	—	—	—	—	—	—	—	—	—	—	—
	Dustproof (I)		753	—	—	—	—	—	●	—	—	—	—	●		
	Waterproof (W)			—	—	—	—	—	●	—	—	—	—	●		
	Electrical operation device (NFM)		756	—	—	—	●	●	●	●	●	●	●	●		
	Mechanical interlock (MI) (*7)	Panel mounting	752	●	●	●	●	●	●	●	●	●	●	●		
		Breaker mounting		●	●	●	●	—	●	—	●	—	●	●		
	Handle lock device	LC <td></td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td>●</td> <td></td>		●	●	●	●	●	●	●	●	●	●	●		
		HL	750	●	●	●	●	●	●	●	●	●	●	●		
		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	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	Recognized	Recognition in process	Recognition in process	Recognition in process	Recognized			
Marine use approval (NK, LR, ABS, GL)				—	—	—	—	—	—	—	—	—	—	—		
Automatic tripping device				Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Thermal-magnetic	Electronic (effective value detection)	Thermal-magnetic	Thermal-magnetic	Electronic (effective value detection)				
Trip button				Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped	Equipped			
Page of Characteristics and dimensions				800			802			806		804		806		

Notes: *1 If using a 3-pole earth leakage circsuit breaker as a 1-pole 2-phase device, connect the left and right poles and not the central pole. When wiring to single-phase 3-wire, connect the neutral line to the central pole.
*2 In case of time delay type, rated voltage is 200-440VAC.
*3 In case of time delay type, rated current is produced with 20 amp. or more.
*4 When the operating time are 0.45, 1.0 and 2.0 seconds, the Earth Leakage circuit breaker operates between 0.15 and 0.45 seconds, between 0.6 and 1.0 seconds and between 1.2 and 2.0 seconds respectively.

*5 Cassette type accessories are field mountable type. It can respond to adhesion attachment of a breaker as standard. (excluding UVT.)
*6 Standard type is SLT equipped.
*7 Not isolation compatible.
*8 AC100V does not acquire the CCC certification.

●NV-H / NV-R (High-performance class) Harmonic Surge Ready

	400 NV400-HEW		400 NV400-REW		630 NV630-HEW		800 NV800-HEW	
								
	Adjustable 200 225 250 300 350 400		Adjustable 200 225 250 300 350 400		Adjustable 300 350 400 500 600 630		Adjustable 400 450 500 600 700 800	
	3	4	3		3		3	
	3φ3W, 1φ3W, 1φ2W		3φ3W, 1φ3W, 1φ2W		3φ3W, 1φ3W, 1φ2W		3φ3W, 1φ3W, 1φ2W	
	100-440		100-440		100-440		100-440	
	(30), 100/200/500 selectable		(30), 100/200/500 selectable		-		-	
	0.1		0.1		-		-	
	0.04		0.04		-		-	
	(100/200/500 selectable)		(100/200/500 selectable)		(100/200/500 selectable)		(100/200/500 selectable)	
	(0.45/1.0/2.0)		(0.45/1.0/2.0)		(0.45/1.0/2.0)		(0.45/1.0/2.0 selectable)	
	(0.1/0.5/1.0)		(0.1/0.5/1.0)		(0.1/0.5/1.0)		(0.1/0.5/1.0)	
	Mechanical type (button)		Mechanical type (button)		Mechanical type (button)		Mechanical type (button)	
	65/65		125/63		65/65		65/65	
	70/70		125/63		70/70		70/70	
	70/70		125/63		70/70		70/70	
	100/100		150/75		100/100		100/100	
	100/100		150/75		100/100		100/100	
	100/100		150/75		100/100		100/100	
	8		8		8		8	
	AC		AC		AC		AC	
	Compatible		Compatible		Compatible		Compatible	
	-		-		-		-	
	6,000		6,000		6,000		4,000	
	1,000		1,000		1,000		500	
	B		B		B		B	
	5		5		7.6		9.6	
	3		3		3		3	
	A		A		A		A	
	140	185	140		140		210	
	257		257		257		275	
	103		103		103		103	
	155		155		155		155	
	6.6	8.2	6.6		7.1		15.3	
	●Busbar terminal		●Busbar terminal		●Busbar terminal		●Busbar terminal	
	-		-		-		-	
	●Bar stud		●Bar stud		●Bar stud		●Bar stud	
	-		-		-		-	
	●(*5)		●(*5)		●(*5)		●(*5)	
	●(*5)		●(*5)		●(*5)		●(*5)	
	●(*5)		●(*5)		●(*5)		●(*5)	
	●		●		●		●	
	-		-		-		-	
	●		●		●		●	
	●(*6)		●(*6)		●(*6)		●(*6)	
	-		-		-		-	
	●	-	●		●		●	
	●	-	●		●		●	
	●(*7)		●(*7)		●(*7)		●(*7)	
	●		●		●		●	
	●		●		●		●	
	-		-		-		-	
	●		●		●		●	
	●		●		●		●	
	●		●		●		●	
	●		●		●		●	
	●		●		●		●	
	●		●		●		●	
	-		-		-		-	
	-		-		-		-	
	Self-declaration		Self-declaration		Self-declaration		Self-declaration	
	Recognition in process		Recognition in process		Recognition in process		Recognition in process	
	-		-		-		-	
	Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)		Electronic (effective value detection)	
	Equipped		Equipped		Equipped		Equipped	
	810		810		814		816	

Remarks: 1. Products with rated current parenthesized are produced when an order is placed.
2. The setting is set to 500mA and delivered when not specifying the rated current sensitivity and the time of time-delay type of operation to 2.0 seconds.
3. Specify “FP-LT” when using a flush plate product with a lead-wire terminal block.
4. Specify “P-LT” when using a plug-in product with a lead-wire terminal block.
5. The circuit breaker has the rated short-circuit breaking capacity specified in the shaded cells.

6. Rated operational voltage	Applicable circuit voltage	Available voltage range
100-440V	100/110/200/220/240/254/265/380/400/415/440V	85-484V
200-440V	200/220/240/254/265/380/400/415/440V	175-484V