

●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)	(15) 16 20 (30)	(60)	63	(15) 16 20 (30) 32 40 50 (60) 63 (75) 80 100 (*3)	125		125 150 175 200 225	250	125-250		
Rated ambient temperature 40°C	3			3 4		3 4	3		3		
Number of poles	3			3 4		3 4	3		3		
Phase line (*1)	3φ3W, 1φ3W, 1φ2W			3φ3W, 1φ3W, 1φ2W 3φ4W		3φ3W, 1φ3W, 1φ2W 3φ4W	3φ3W, 1φ3W, 1φ2W		3φ3W, 1φ3W, 1φ2W		
Rated operational voltage Ue (V) (*2) AC	100-440			100-440 200-440		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		
	Max. operating time (s)	at ΔIn 0.1 at 5ΔIn 0.04			0.1 0.04		0.1 0.04		0.1 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)	(0.1/0.5/1.0)		
Earth leakage indication system	Mechanical type (button)										
	Rated short-circuit breaking capacities (kA)	AC	440V	10/8	10/8	10/8	50/38	50/38	65/65	65/65	65/65
			415V	10/8	10/8	10/8	50/38	50/38	70/70	70/70	70/70
			400V	10/8	10/8	10/8	50/38	50/38	75/75	75/75	75/75
			230V	25/19	25/19	25/19	100/75	100/75	100/100	100/100	100/100
			200V	25/19	25/19	25/19	100/75	100/75	100/100	100/100	100/100
	100V	25/19	25/19	25/19	100/75	100/75	100/100	100/100	100/100		
	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)	-			-		-	-		-		
Number of operating cycles	Without current	15,000			25,000		25,000	25,000		25,000	
	With current	8,000			10,000		10,000	10,000		10,000	
Utilization category	A			A		A	A		A		
Rated short time withstand current Icu (kA) at 0.25s	-			-		-	-		-		
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	90 120	90 120	105 140	105	105	
		b	130	130	130	130	130	165	165	165	
		c	68	68	68	68	68	68	68	68	
		ca	90	90	90	90	90	92	92	92	
		Mass of front-face type (kg)	0.75			1.1 1.4		1.1 1.4	1.9 2.5		1.8 1.9
Installation and connections	Front connection (F)	●Screw terminal			●Screw terminal		●Screw terminal	●Screw terminal		●Screw terminal	
	Solderless (BOX) terminal (SL)	-			-		-	-		-	
	Rear (B)	●Round stud			●Round stud		●Round stud	●Round stud		●Round stud	
	Plug-in (PM)	-			-		-	-		-	
	Cassette-type accessories	Alarm switch (AL)	●(*5)			●(*5)		●(*5)	●(*5)		●(*5)
		Auxiliary switch (AX)	●(*5)			●(*5)		●(*5)	●(*5)		●(*5)
		Shunt trip (SHT)	●(*5)			●(*5)		●(*5)	●(*5)		●(*5)
		Undervoltage trip (UVT)	●(*5)			●(*5)		●(*5)	●(*5)		●(*5)
		Earth leakage alarm switch (EAL)	-			-		-	-		-
	Molded Case Circuit Breakers	With lead-wire terminal block (SLT)	●			●		●	●		●
Test button module (TBM)		●(*6)			●(*6)		●(*6)	●(*6)		●(*6)	
External accessories	Enclosure	Closed (S)	-			-		-	-		
		Dustproof (I)	-			-		●	-		
		Waterproof (W)	-			-		●	-		
	Electrical operation device (NFM)	-			●		●	●			
	Mechanical interlock (MI) (*7)	Panel mounting	●			●		●	●		
		Breaker mounting	●			-		●	-		
		LC	●			●		●	●		
	Handle lock device	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		
CCC recognition	Recognition in process			Recognition in process		Recognition in process	Recognized		Recognized		
Marine use approval (NK, LR, ABS, GL)	-			-		-	-		-		
Automatic tripping device	Thermal-magnetic			Thermal-magnetic		Thermal-magnetic	Electronic (effective value detection)		Electronic (effective value detection)		
Trip button	Equipped			Equipped		Equipped	Equipped		Equipped		
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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 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.