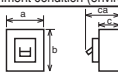


2 Detailed Specifications 2 Earth Leakage Circuit Breakers

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 temperature 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					
Phase line (*1)		1φ2W		3φ3W, 1φ3W, 1φ2W			1φ2W		3φ3W, 1φ3W, 1φ2W		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					
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				
	Max. operating time (s)	at 1Δn	0.1		0.1			0.1		0.1		0.1		0.1			0.1				
		at 5Δn	0.04		0.04			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)			(100/200/500 selectable)				
	Max. operating time (s) (*3)		-		-			-		-		(0.45/1.0/2.0 selectable)		(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)			(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)	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		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		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		7.5/7.5		7.5/7.5		30/15		30/15					
Rated impulse withstand voltage Uimp (kV)			6		6			6		6		6		6							
Current			AC		AC			AC		AC		AC		AC							
Suitability for isolation			Compatible		Compatible			Compatible		Compatible		Compatible		Compatible							
Reverse connection (below 230VAC)			Possible		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		6,000		6,000			6,000		6,000		6,000		6,000							
Utilization category			A		A			A		A		A		A							
Pollution degree			2		2			2		2		2		2							
EMC environment condition (environment A or B)			A		A			A		A		A		A							
Overall dimensions (mm)			a	75		75			75		90		90								
			b	130		130			130		130		130								
			c	68		68			68		68		68								
			ca	90		90			90		90		90								
				0.7 0.75		0.7 0.75			0.7 0.75		1.0		1.0								
Isolation and connections	Front connection (F) Page		●Screw terminal		●Screw terminal			●Screw terminal		●Screw terminal		●Screw terminal									
	Solderless (BOX) terminal (SL)		-		-			-		-		-									
	Rear (B) 94		●Round stud		●Round stud			●Round stud		●Bar stud		●Bar stud									
	Plug-in (PM)		-		-			-		-		-									
Cassette-type accessories	Alarm switch (AL)		●(*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)		●		●			●		●		●									
External accessories	Test button module (TBM) 117		●(*5)		●(*5)			●(*5)		●(*5)		●(*5)									
	Enclosure	Closed (S)	-		-			-		-		-									
		Dustproof (I)	-		-			-		-		-									
		Waterproof (W)	-		-			-		-		-									
	Electrical operation device (NFM)		-		-			-		-		●									
		Mechanical interlock (MI) (*7)	●		●			●		●		●									
	Handle lock device	Panel mounting	●		●			●		●		●									
		Breaker mounting	●		●			●		●		●									
		LC	●		●			●		●		●									
	External operating handle	HL	●		●			●		●		●									
		HL-S	●		●			●		●		●									
		(F)	●		●			●		●		●									
	Terminal cover (TC-L, TC-S, TTC, BTC, PTC)	(V)	●		●			●		●		●									
			●		●			●		●		●									
			●		●			●		●		●									
	Rear stud (B-ST)	96		●		●			●		●		●								
	Plug-in (PM)	-		-		-			-		-		-								
IEC 35mm rail mounting adapters	139		●		●			●		-		-									
CE marking			Self-declaration		Self-declaration			Self-declaration		Self-declaration		Self-declaration									
CCC recognition			-		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			182		182			182		184		184									

- 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
	186		190	194	

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.

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	160-484V