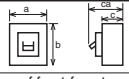


2 Detailed Specifications

Earth Leakage Circuit Breakers

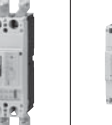
NV-S (Standard class) Harmonic Surge Ready

Frame (A)	30	32	50	60	63	100	125	125
Model	NV32-SV		NV63-SV			NV125-SV		NV125-SEV
Image								
Rated current In (A)	(5) 6 10 (15)	(32)	(5) (10) (15) 16 20	(60)	63	(15) 16 20 (30) 32 40 50	125	63-125
Rated ambient temperature 40°C	16 20 25 (30)		25 (30) 32 40 50			(60) 63 (75) 80 100 (°C)		
Number of poles	3	3	3	3	3	3 4	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	3φ3W, 1φ3W, 1φ2W 3φ4W
Rated operational voltage Ue (V) (*2)	AC 100-440	100-440	100-440	100-440	100-440	100-440 200-440	100-440 200-440	100-440
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 at 5IΔn 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)
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)	AC	440V 5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	25/25	25/25
		415V 5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	30/30	30/30
		400V 5/5	5/5	7.5/7.5	7.5/7.5	7.5/7.5	30/30	30/30
		230V 10/10	10/10	15/15	15/15	15/15	50/50	85/85
		200V 10/10	10/10	15/15	15/15	15/15	50/50	85/85
		100V 10/10	10/10	15/15	15/15	15/15	50/50	85/85
Rated impulse withstand voltage Uimp (kV)	Current	6	6	6	6	6	6	6
	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 With current 6,000	10,000 6,000	15,000 8,000	15,000 8,000	15,000 8,000	25,000 10,000	25,000 10,000	25,000 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
		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)	0.75	0.75	0.8	0.8	1.1 1.4	1.1 1.4
Isolation and connections	Front connection (F)	●Screw terminal	●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	●Bar stud	●Bar stud
	Plug-in (PM)	-	-	-	-	-	-	-
Cassette-type accessories	Alarm switch (AL)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	Auxiliary switch (AX)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	Shunt trip (SHT)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	Undervoltage trip (UVT)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)	●(*5)
	Earth leakage alarm switch (EAL)	-	-	-	-	-	-	-
	With lead-wire terminal block (SLT)	●	●	●	●	●	●	●
	Test button module (TBM)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)	●(*6)
External accessories	Enclosure Closed (S)	-	-	-	-	-	-	-
	Dustproof (D)	-	-	-	-	-	-	-
	Waterproof (W)	-	-	-	-	-	-	-
	Electrical operation device (NFM)	-	-	-	-	-	-	-
	Mechanical interlock (MI) (*8)	●	●	●	●	●	●	●
	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)	●	●	●	●	●	●	●
Page of Characteristics and dimensions	Plug-in (PM)	-	-	-	-	-	-	-
	IEC 35mm rail mounting adapters	●	●	●	●	●	●	●
	CE marking	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	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

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 less.
*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	125-125	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	3 4	3	3	3 4	3
	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W 3φ4W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W	3φ3W, 1φ3W, 1φ2W 3φ4W	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 Possible	Compatible Possible	Compatible Possible	Compatible Possible	Compatible Possible	Compatible Possible	Compatible Possible	Compatible Possible	Compatible 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	140 185	140	140	140 185	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	6.2 8.2	6.9	6.9	7.1 8.9	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)	●(*7)	●(*7)
	●	●	●	●	●	●	●	●	●
	●	●	●	-	-	-	-	-	-
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●
	●	●	●	●	●	●	●</		

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
100-440V	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