

# 6. Characteristics and Dimensions

## Earth-Leakage Circuit Breakers

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
 Http://www.100y.com.tw

### NV250-CW NV250-SW NV250-HW

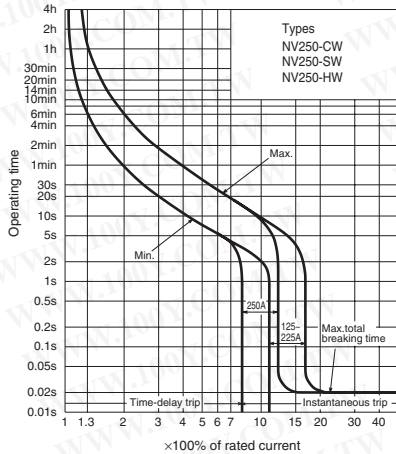


Type NV250-SW

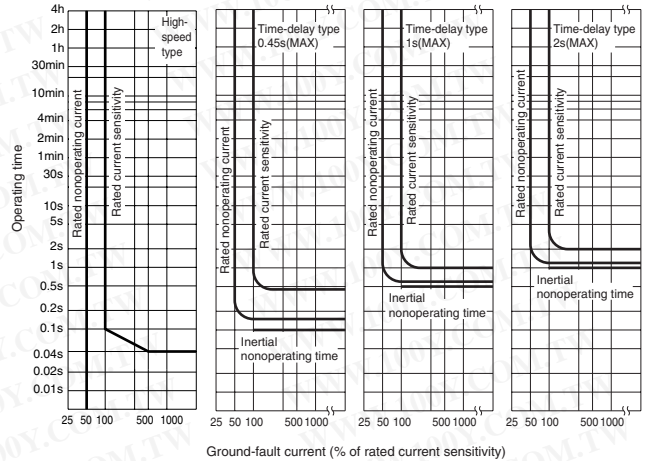
Type name		NV250-CW	NV250-SW	NV250-HW
Rated current In (Amp.)		125 150 175 200 225 250	125 150 175 200 225 250	125 150 175 200 225
Number of poles		3	3 4	3 4
Rated operational voltage Ue (V AC) (*1)		100-440 Multi-voltage type	100-440 200-440 Multi-voltage type Multi-voltage type	100-440 200-440 Multi-voltage type Multi-voltage type
High-speed type	Rated current sensitivity $I\Delta n$ (mA)	30, 100•200•500 Selectable	30, 100•200•500 Selectable	30, 100•200•500 Selectable
	Max. operating time at $5I\Delta n$ (s)	0.04	0.04	0.04
Time-delay type	Rated current sensitivity $I\Delta n$ (mA)	(100•200•500) Selectable	(100•200•500) Selectable	(100•200•500) Selectable
	Max. operating time at $5I\Delta n$ (s)	(0.45•1.0•2.0) Selectable	(0.45•1.0•2.0) Selectable	(0.45•1.0•2.0) Selectable
	Inertial non-operating time at $2I\Delta n$ (s)	(0.1•0.5•1.0)	(0.1•0.5•1.0)	(0.1•0.5•1.0)
Earth-leakage indication system		Button	Button	Button
Rated short-circuit breaking capacity (kA) IEC 60947-2 2nd. ed. (Icu/Ics)	AC440V	15/8	25/13	50/13
	AC400V	18/9	30/15	50/13
	AC230V	35/18	50/25	100/25
Standard Attached Parts (Front connection)		Mounting screw: M4×0.7×55 (3P: 2pcs, 4P: 4pcs) Insulation barrier: (3P: 4pcs, 4P: 6pcs)		

Note (\*1) Rated operational voltage of time-delay type is for 200-440V.

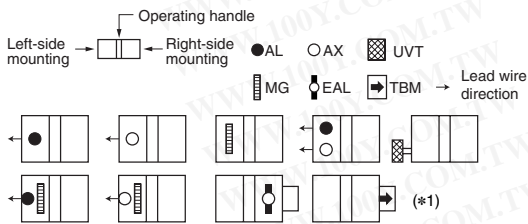
### Operating Characteristics



### Earth-Leakage Tripping Characteristics

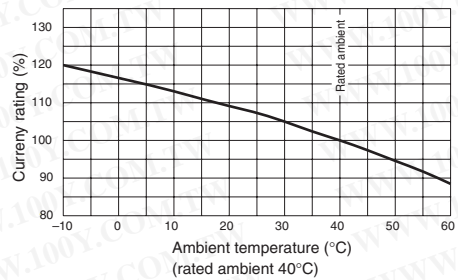


### Internal Accessories



Note (\*1) Refer to page 48.

### Temperature Characteristics

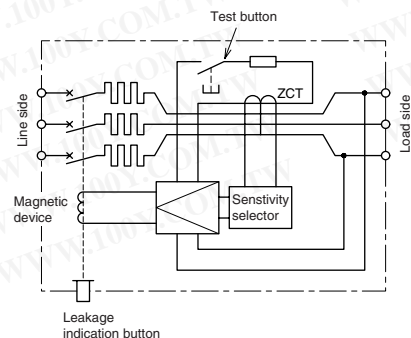


### External Accessories

Accessories	Type name	Reference page	Accessories	Type name	Reference page
Operating handle	F F-2S	61	Mechanical interlock	MI MI-05SW3 (*2)	79
	V V-2S	64		Terminal cover	Small TC-S TCS-2SW3W (*2)
	S S2SW	68	Large TC-L TCL-2SW3W (*2)		
Handle lock device	(*)1 LC LC-2SW	80	Skeleton TTC TTC-2SW3 (*2)		
	HL HLN-2SW		Rear BTC BTC-2SW3W (*2)		
	HL-S HLS-2SW		Plug-in PTC PTC-2SW3W (*2)		
	Electrical operation device		MDS-NV2SWE (*3)	71	

Note (\*1) HLF types are used for OFF-lock, and HLN types for ON-lock.  
 (\*2) The designation depends on the number of poles. Refer to the reference page.  
 (\*3) Specify the working voltage.

### Internal Wiring Diagram





# 6. Characteristics and Dimensions

## Earth-Leakage Circuit Breakers

### NV250-SEW NV250-HEW

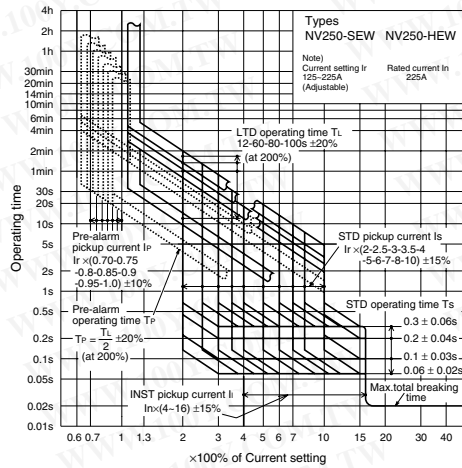


Type NV250-SEW

Type name		NV250-SEW	NV250-HEW
Rated current In (Amp.)		125-225 Adjustable	125-225 Adjustable
Number of poles		3 4	3 4
Rated operational voltage Ue (V AC) (*1)		100-440 Multi-voltage type	100-440 Multi-voltage type
High-speed type	Rated current sensitivity IΔn (mA)	(30) 100•200•500 Selectable	(30) 100•200•500 Selectable
	Max. operating time at 5IΔn (s)	0.04	0.04
Time-delay type	Rated current sensitivity IΔn (mA)	(100•200•500) Selectable	(100•200•500) Selectable
	Max. operating time at 5IΔn (s)	(0.45•1.0•2.0) Selectable	(0.45•1.0•2.0) Selectable
	Inertial non-operating time at 2IΔn (s)	(0.1•0.5•1.0)	(0.1•0.5•1.0)
Earth-leakage indication system		Button	Button
Rated short-circuit breaking capacity (kA) IEC 60947-2 2nd. ed. (Icu/Ics)	AC440V	25/13	50/13
	AC400V	30/15	50/13
	AC230V	50/25	100/25
Standard Attached Parts (Front connection)		Mounting screw: M4×0.7×55 (3P: 2pcs, 4P: 4pcs) Insulation barrier: (3P: 4pc, 4P: 6pcs)	

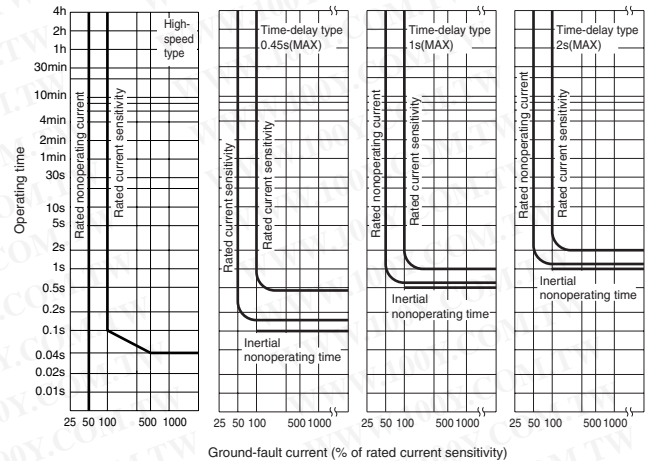
Note (\*1) Rated operational voltage of time-delay type is for 200-440V.

### Operating Characteristics

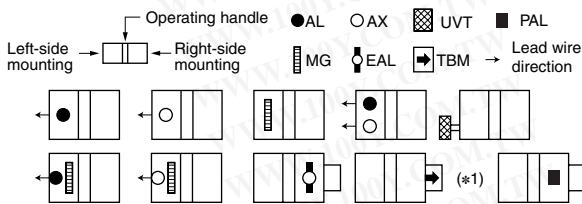


Note) Instantaneous tripping current (×100% of In)

### Earth-Leakage Tripping Characteristics

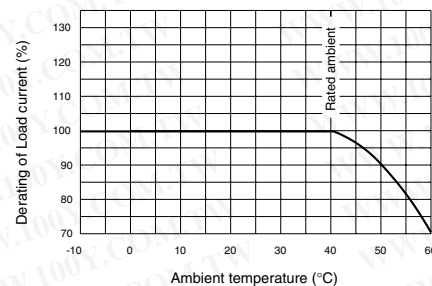


### Internal Accessories



Note (\*1) Refer to page 48.

### Temperature Characteristics

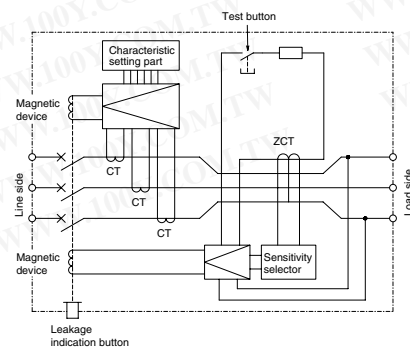


### External Accessories

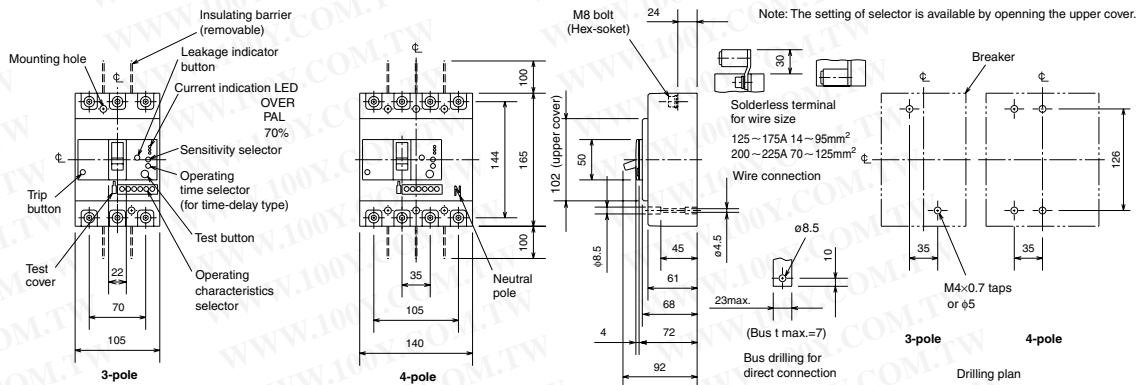
Accessories	Type name	Reference page	Accessories	Type name	Reference page	
Operating handle	F F-2S	61	Mechanical interlock	MI MI-05SW3 (*2)	79	
	V V-2S	64				
	S S2SW	68				
Handle lock device	LC LC-2SW	80	Terminal cover	Small TC-S TCS-2SW3W (*2)	70	
	(*1) HLF HLF-2SW			Large TC-L TCL-2SW3W (*2)		
	HL HLN-2SW			Skeleton TTC TTC-2SW3 (*2)		
	HL-S HLS-2SW			Rear BTC BTC-2SW3W (*2)		
			Plug-in PTC PTC-2SW3W (*2)			
			Electrical operation device	MDS-NVE2SWE (*3)	71	

Note (\*1) HLF types are used for OFF-lock, and HLN types for ON-lock.  
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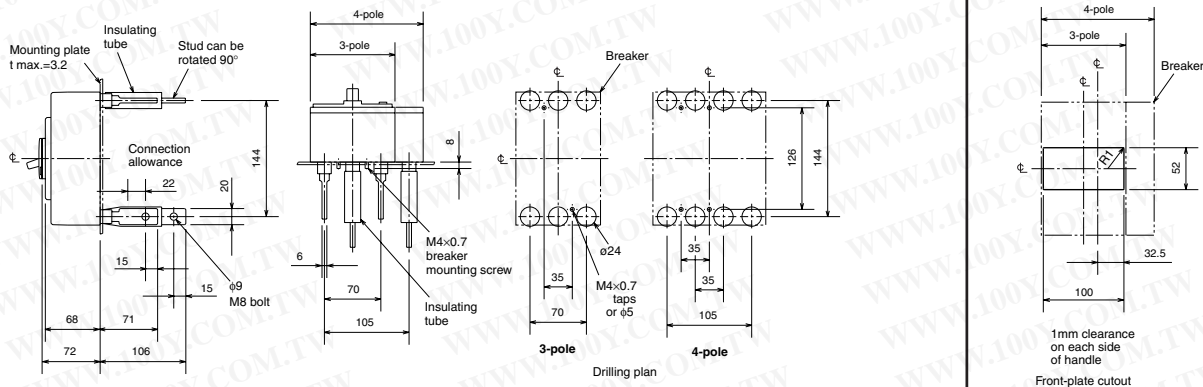
### Internal Wiring Diagram



**Front connection**



**Rear connection**



**Plug-in**

