

NU6- Ⅲ
Surge Protective Device

1. General

1.1 Certificates: international certificates are under proceeding;

1.2 Electric ratings: Single phase power distribution and control system of AC50/60Hz, 230V;

1.3 Short circuit current: up to 5kA (8/20μs);

1.4 Application: Protect electric system and on-loading electrical apparatus from lightening and instantaneous over-voltage;

1.5 Standard: IEC61643-11, EN61643-11

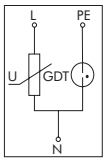
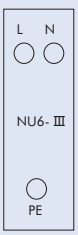
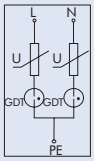
CE RoHS

2. Technical data

Model	Uoc (1.2/50μs) (kV)	Short circuit current Isc (8/20us)(KA)	Max. continuous operational voltage Uc (V~)	Level of protection Up (kV)
NU6- Ⅲ	10	5	275	1.5
			320	1.5
			385	1.5

Auxiliary	Configurations	Rated voltage Un(V)	Rated current In(A)
contact	INO+INC	AC125	3

3. Type and circuit diagram

Model	Type		Circuit diagram	
NU6- Ⅲ	1P+N		Compound Type	
	2P		Compound Type	

4. Design type and protective mode of different surge protectors

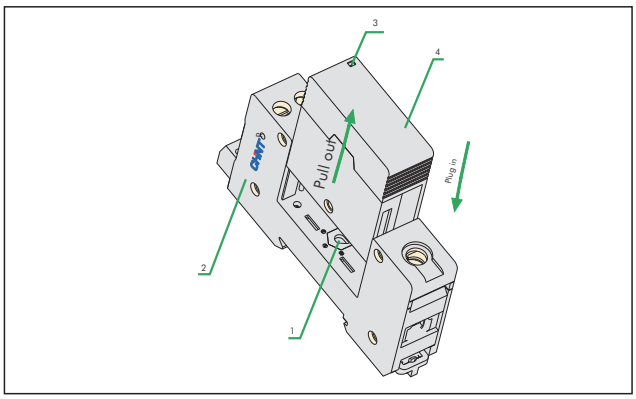
Model	Uoc (1.2/50μs) (kV)	Uc (V~)	Corresponding design type and protection mode
NU6- Ⅲ	10	275	Compound type (with gasdischarge tube + voltage sensitive resistance) L-N/N-PE
		320 385	Compound type (with gas discharge tube + voltage sensitive resistance) L-PE/N-PE

5. Functions

5.1 The product is composed of two independent components: removable protective module 4 and base 2;

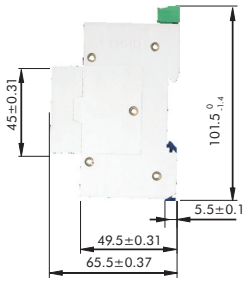
5.2 When the product is damaged, the part 3 will indicate; please replace the removable protective module 4 at once and there is no need to cutoff the circuits;

5.3 The part 1 is for maximum continuous operational voltage indication as well as avoiding replacement with wrong module.



6. Overall and mounting dimensions (mm)

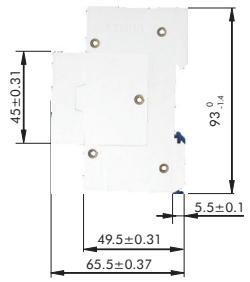
NU6- Ⅲ /F with remote signal output contact





Remote signal output contact

NU6- Ⅲ without remote signal output contact







NU6- Ⅱ G series surge arrestor	NU6- Ⅲ series surge arrestor
The boundary between lightning protection areas of LPZ1 & LPZ2	The boundary between lightning protection areas of LPZ2 & LPZ3
Protection category: C	Protection category: D
Over-voltage mounting category: Ⅱ	Over-voltage mounting category: Ⅰ
Rated impulse withstand voltage: 2500V	Rated impulse withstand voltage: 1500V
Parameters of discharge: Imax and In	Parameters of discharge: Uoc and Isc
Applicable to branch power distribution switchgear	Applicable to terminal of power distribution



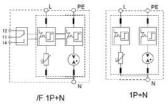
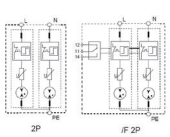


*Note: Fuse/Circuit breaker are strongly recommended to be installed upstream the surge protector.

7. Recommended circuit breaker selection

Surge protector	Maximum discharge current (kA)	Fuse or circuit breaker (upstream)
NU6- Ⅱ G	40	gL/gG 125A
	60	gL/gG 160A
	100	gL/gG 250A
NU6- Ⅲ	ALL	NB1 C10

NU6	III	/F	10kV	275V	1P+N
Product type	Test class	Telesignal Function	Uoc	Maximum continuous operational voltage(Uc)	Poles
NU6	III	Default: Normal F: With remote signal output	10kV	275V 320V 385V	1P+N 2P

Diagram	Test class	Uoc (1.2/50μs)(kV)	Isc (8/20us) (KA)	Uc(V)	Poles	Auxiliary contact	Description	Code
	Ⅲ	10	5	275	1P+N	N	NU6-III 10kV/275V 1PN	213910
	Ⅲ	10	5	275	1P+N	Y	NU6-III/F 10kV/275V 1PN	213914
	Ⅲ	10	5	320	2P	N	NU6-III 10kV/320V 2P	213911
	Ⅲ	10	5	320	2P	Y	NU6-III/F 10kV/320V 2P	213915
	Ⅲ	10	5	385	2P	N	NU6-III 10kV/385V 2P	213912
	Ⅲ	10	5	385	2P	Y	NU6-III/F 10kV/385V 2P	213913