

NU6-IIG

Surge Protective Device

1. General

1.1 Certificates: international certificates are under proceeding;

1.2 Number of pole: 1, 2, 3, 4, 1P+N, 3P+N;

1.3 Electric ratings: 230/400V, AC50/60Hz;

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

1.5 Standard: IEC/EN 61643-11

CE RoHS

2. Technical data

Model	Max.continuous Operational Voltage Uc(V)	Level of protection Up(kV)	Maximum discharge current Imax (8/20μs)(kA)	Nominal discharge current In (8/20μs) (kA)
NU6- Ⅱ G(/F)	275	1.5	40	20
	320	1.6		
	385	1.8		
	440	2.0		
	255(NPE)	1.5	65	30
	275	1.6		
	320	1.8		
	385	2.0		
	440	2.2		
	255(NPE)	1.8	100	50
	275	2.0		
	320	2.1		
	385	2.2		
	440	2.4		

Auxiliary	Configurations	Rated voltage Un(V)	Rated current In(A)
Contact	1NO+1NC	AC250	0.5

3. How to select surge protectors

a. The voltage should be ≤Uc;
b. Up < maximum impulse withstands;
c. Different protectors should be selected according to various grounding system and protection mode.

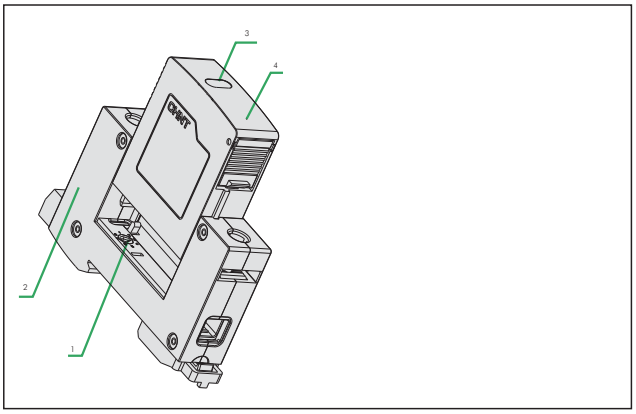
Model	Max.continuous operational voltage Uc(V ~)	Applicable grounding system	Pretection mode	Circuits	Number of poles
NU6-Ⅱ G(/F)	275	TN-S	L-PE,L-N,N-PE	1 phase,3 phase 5 wire	1,2,4, 1P+N,3P+N
		TN-C	L-PEN	1 phase,3 phase 4 wire	1,3
		TT	L-N,N-PE	1 phase,3 phase 4 wire	1P+N,3P+N
	320	TN-S	L-PE,L-N,N-PE	1 phase,3 phase 5 wire	1,2,4, 1P+N,3P+N
		TN-C	L-PEN	1 phase,3 phase 4 wire	1,3
		TT	L-N,N-PE	1 phase,3 phase 4 wire	1P+N,3P+N
	385	TN-S	L-PE,L-N,N-PE	1 phase,3 phase 5 wire	1,2,4, 1P+N,3P+N
		TN-C	L-PEN	1 phase,3 phase 4 wire	1,3
		TT	L-PE, L-N,N-PE	1 phase,3 phase 4 wire	1,2,4, 1P+N,3P+N
	440	TN-S	L-PE,L-N,N-PE	1 phase,3 phase 5 wire	1,2,4, 1P+N,3P+N
		TN-C	L-PEN	1 phase,3 phase 4 wire	1,3
		TT	L-PE,L-N,N-PE	1 phase,3 phase 4 wire	1,2,4, 1P+N,3P+N
		IT	L-PE	1 phase,3 phase 3wire	1,3

4. Functions

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

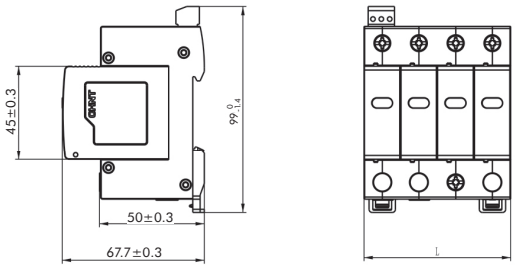
4.2 When the product is damaged, the part 3 will indicate; please replace the removable protective module 4 at once and there is no need to cutoff the circuits;

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



5. Overall and mounting dimensions (mm)

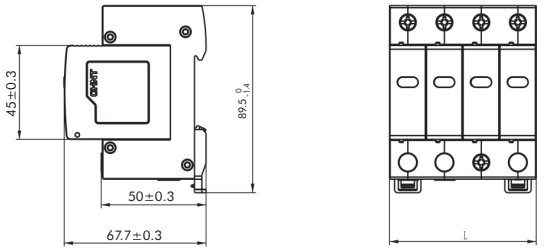
NU6- Ⅱ G/F (40, 65kA) with remote control port



NU6 Ⅱ G

极数	1P	1P+N、2P	3P	3P+N、4P
L(mm)	$18^{0}_{-0.6}$	$36^{0}_{-1.2}$	$54^{0}_{-2.4}$	$72^{0}_{-2.4}$

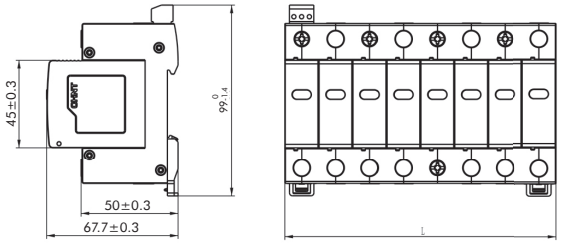
NU6- Ⅱ G/F(40, 65kA) without remote control port



NU6 Ⅱ G

极数	1P	1P+N、2P	3P	3P+N、4P
L(mm)	$18^{0}_{-0.6}$	$36^{0}_{-1.2}$	$54^{0}_{-2.4}$	$72^{0}_{-2.4}$

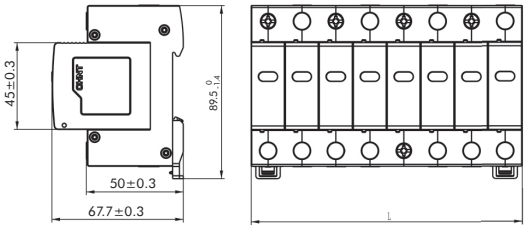
NU6- Ⅱ G/F (100kA) with remote control port



极数	1P	1P+N	2P	3P	3P+N	4P
L(mm)	$36^{0}_{-1.2}$	$54^{0}_{-2.4}$	$72^{0}_{-2.4}$	$108^{0}_{-3.6}$	$126^{0}_{-3.6}$	$144^{0}_{-4.8}$

NU6 Ⅱ G

NU6- Ⅱ G/F (100kA) without remote control port



NU6 Ⅱ G

极数	1P	1P+N	2P	3P	3P+N	4P
L(mm)	$36^{0}_{-1.2}$	$54^{0}_{-2.4}$	$72^{0}_{-2.4}$	$108^{0}_{-3.6}$	$126^{0}_{-3.6}$	$144^{0}_{-4.8}$

NU6	II	/F	40kA	275V	1P
Product type	Test class	Telesignal Function	Imax(8/20μs)	Maximum continuous operational voltage(Uc)	Poles
NU6	II	Default: Normal F: With remote signal output	40kA 65kA 100kA	275V 320V 385V 440V	1P 1P+N 2P 3P 3P+N 4P

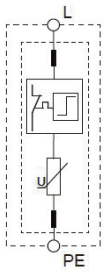
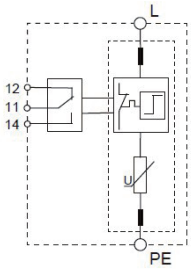
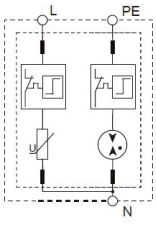
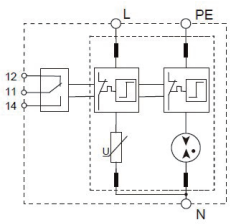
Diagram	Test class	Imax(8/20μs)(kA)	Uc(V)	Poles	Auxiliary contact	Description	Code
 1P	II	40	275	1P	N	NU6-IIG 40kA/275V 1P	252491
	II	40	275	1P	Y	NU6-IIG/F 40kA/275V 1P	252499
	II	40	320	1P	N	NU6-IIG 40kA/320V 1P	252492
	II	40	320	1P	Y	NU6-IIG/F 40kA/320V 1P	252500
	II	40	385	1P	N	NU6-IIG 40kA/385V 1P	252493
	II	40	385	1P	Y	NU6-IIG/F 40kA/385V 1P	252501
	II	40	440	1P	N	NU6-IIG 40kA/440V 1P	252494
	II	40	440	1P	Y	NU6-IIG/F 40kA/440V 1P	252502
	II	65	275	1P	N	NU6-IIG 65kA/275V 1P	252495
	II	65	275	1P	Y	NU6-IIG/F 65kA/275V 1P	252503
	II	65	320	1P	N	NU6-IIG 65kA/320V 1P	252496
	II	65	320	1P	Y	NU6-IIG/F 65kA/320V 1P	252504
	II	65	385	1P	N	NU6-IIG 65kA/385V 1P	252497
	II	65	385	1P	Y	NU6-IIG/F 65kA/385V 1P	252505
	II	65	440	1P	N	NU6-IIG 65kA/440V 1P	252498
	II	65	440	1P	Y	NU6-IIG/F 65kA/440V 1P	252506
 /F 1P	II	100	385	1P	N	NU6-□G 100KA/385V 1P	368969
	II	100	385	1P	Y	NU6-□G/F 100kA/385V 1P	368977
	II	100	440	1P	N	NU6-□G 100kA/440V 1P	368970
	II	100	440	1P	Y	NU6-□G/F 100kA/440V 1P	368978
 1P+N	II	40	275	1P+N	N	NU6-IIG 40kA/275V 1P+N	252507
	II	40	275	1P+N	Y	NU6-IIG/F 40kA/275V 1P+N	252515
	II	40	320	1P+N	N	NU6-IIG 40kA/320V 1P+N	252508
	II	40	320	1P+N	Y	NU6-IIG/F 40kA/320V 1P+N	252516
	II	40	385	1P+N	N	NU6-IIG 40kA/385V 1P+N	252509
	II	40	385	1P+N	Y	NU6-IIG/F 40kA/385V 1P+N	252517
	II	40	440	1P+N	N	NU6-IIG 40kA/440V 1P+N	252510
	II	40	440	1P+N	Y	NU6-IIG/F 40kA/440V 1P+N	252518
	II	65	275	1P+N	N	NU6-IIG 65kA/275V 1P+N	252511
	II	65	275	1P+N	Y	NU6-IIG/F 65kA/275V 1P+N	252519
	II	65	320	1P+N	N	NU6-IIG 65kA/320V 1P+N	252512
	II	65	320	1P+N	Y	NU6-IIG/F 65kA/320V 1P+N	252520
	II	65	385	1P+N	N	NU6-IIG 65kA/385V 1P+N	252513
	II	65	385	1P+N	Y	NU6-IIG/F 65kA/385V 1P+N	252521
 /F 1P+N	II	65	440	1P+N	N	NU6-IIG 65kA/440V 1P+N	252514
	II	65	440	1P+N	Y	NU6-IIG/F 65kA/440V 1P+N	252522

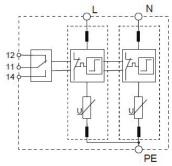
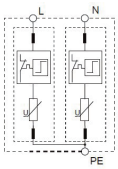
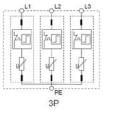
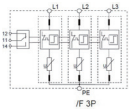
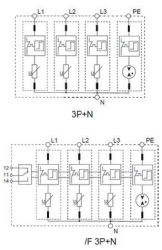
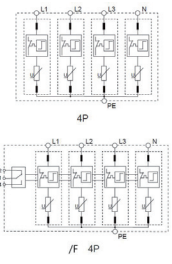
Diagram	Test class	Imax(8/20μs)(kA)	Uc(V)	Poles	Auxiliary contact	Description	Code
 /F 2P	II	40	275	2P	N	NU6-IIG 40kA/275V 2P	252523
	II	40	275	2P	Y	NU6-IIG/F 40kA/275V 2P	252531
	II	40	320	2P	N	NU6-IIG 40kA/320V 2P	252524
	II	40	320	2P	Y	NU6-IIG/F 40kA/320V 2P	252532
	II	40	385	2P	N	NU6-IIG 40kA/385V 2P	252525
	II	40	385	2P	Y	NU6-IIG/F 40kA/385V 2P	252533
	II	40	440	2P	N	NU6-IIG 40kA/440V 2P	252526
	II	40	440	2P	Y	NU6-IIG/F 40kA/440V 2P	252534
	II	65	275	2P	N	NU6-IIG 65kA/275V 2P	252527
	II	65	275	2P	Y	NU6-IIG/F 65kA/275V 2P	252535
	II	65	320	2P	N	NU6-IIG 65kA/320V 2P	252528
 2P	II	65	320	2P	Y	NU6-IIG/F 65kA/320V 2P	252536
	II	65	385	2P	N	NU6-IIG 65kA/385V 2P	252529
	II	65	385	2P	Y	NU6-IIG/F 65kA/385V 2P	252537
	II	65	440	2P	N	NU6-IIG 65kA/440V 2P	252530
	II	65	440	2P	Y	NU6-IIG/F 65kA/440V 2P	252538
	II	100	385	2P	N	NU6-□G 100kA/385V 2P	368971
	II	100	385	2P	Y	NU6-□G/F 100kA/385V 2P	368979
	II	100	440	2P	N	NU6-□G 100kA/440V 2P	368972
	II	100	440	2P	Y	NU6-□G/F 100kA/440V 2P	368980
 3P  /F 3P	II	40	275	3P	N	NU6-IIG 40kA/275V 3P	252539
	II	40	275	3P	Y	NU6-IIG/F 40kA/275V 3P	252547
	II	40	320	3P	N	NU6-IIG 40kA/320V 3P	252540
	II	40	320	3P	Y	NU6-IIG/F 40kA/320V 3P	252548
	II	40	385	3P	N	NU6-IIG 40kA/385V 3P	252541
	II	40	385	3P	Y	NU6-IIG/F 40kA/385V 3P	252549
	II	40	440	3P	N	NU6-IIG 40kA/440V 3P	252542
	II	40	440	3P	Y	NU6-IIG/F 40kA/440V 3P	252550
	II	65	275	3P	N	NU6-IIG 65kA/275V 3P	252543
	II	65	275	3P	Y	NU6-IIG/F 65kA/275V 3P	252551
	II	65	320	3P	N	NU6-IIG 65kA/320V 3P	252544
	II	65	320	3P	Y	NU6-IIG/F 65kA/320V 3P	252552
	II	65	385	3P	N	NU6-IIG 65kA/385V 3P	252545
	II	65	385	3P	Y	NU6-IIG/F 65kA/385V 3P	252553
	II	65	440	3P	N	NU6-IIG 65kA/440V 3P	252546
	II	65	440	3P	Y	NU6-IIG/F 65kA/440V 3P	252554
	II	100	385	3P	N	NU6-□G 100KA/385V 3P	368973
	II	100	385	3P	Y	NU6-□G/F 100kA/385V 3P	368981
	II	100	440	3P	N	NU6-□G 100kA/440V 3P	368974
		100	440	3P	Y	NU6-□G/F 100kA/440V 3P	368982

Diagram	Test class	Imax(8/20μs)(kA)	Uc(V)	Poles	Auxiliary contact	Description	Code
	Ⅱ	40	275	3P+N	N	NU6-IIG 40kA/275V 3P+N	252555
	Ⅱ	40	275	3P+N	Y	NU6-IIG/F 40kA/275V 3P+N	252563
	Ⅱ	40	320	3P+N	N	NU6-IIG 40kA/320V 3P+N	252556
	Ⅱ	40	320	3P+N	Y	NU6-IIG/F 40kA/320V 3P+N	252564
	Ⅱ	40	385	3P+N	N	NU6-IIG 40kA/385V 3P+N	252557
	Ⅱ	40	385	3P+N	Y	NU6-IIG/F 40kA/385V 3P+N	252565
	Ⅱ	40	440	3P+N	N	NU6-IIG 40kA/440V 3P+N	252558
	Ⅱ	40	440	3P+N	Y	NU6-IIG/F 40kA/440V 3P+N	252566
	Ⅱ	65	275	3P+N	N	NU6-IIG 65kA/275V 3P+N	252559
	Ⅱ	65	275	3P+N	Y	NU6-IIG/F 65kA/275V 3P+N	252567
	Ⅱ	65	320	3P+N	N	NU6-IIG 65kA/320V 3P+N	252560
	Ⅱ	65	320	3P+N	Y	NU6-IIG/F 65kA/320V 3P+N	252568
	Ⅱ	65	385	3P+N	N	NU6-IIG 65kA/385V 3P+N	252561
	Ⅱ	65	385	3P+N	Y	NU6-IIG/F 65kA/385V 3P+N	252569
	Ⅱ	65	440	3P+N	N	NU6-IIG 65kA/440V 3P+N	252562
	Ⅱ	65	440	3P+N	Y	NU6-IIG/F 65kA/440V 3P+N	252570
	Ⅱ	40	275	4P	N	NU6-IIG 40kA/275V 4P	252571
	Ⅱ	40	275	4P	Y	NU6-IIG/F 40kA/275V 4P	252579
	Ⅱ	40	320	4P	N	NU6-IIG 40kA/320V 4P	252572
	Ⅱ	40	320	4P	Y	NU6-IIG/F 40kA/320V 4P	252580
	Ⅱ	40	385	4P	N	NU6-IIG 40kA/385V 4P	252573
	Ⅱ	40	385	4P	Y	NU6-IIG/F 40kA/385V 4P	252581
	Ⅱ	40	440	4P	N	NU6-IIG 40kA/440V 4P	252574
	Ⅱ	40	440	4P	Y	NU6-IIG/F 40kA/440V 4P	252582
	Ⅱ	65	275	4P	N	NU6-IIG 65kA/275V 4P	252575
	Ⅱ	65	275	4P	Y	NU6-IIG/F 65kA/275V 4P	252583
	Ⅱ	65	320	4P	N	NU6-IIG 65kA/320V 4P	252576
	Ⅱ	65	320	4P	Y	NU6-IIG/F 65kA/320V 4P	252584
	Ⅱ	65	385	4P	N	NU6-IIG 65kA/385V 4P	252577
	Ⅱ	65	385	4P	Y	NU6-IIG/F 65kA/385V 4P	252585
	Ⅱ	65	440	4P	N	NU6-IIG 65kA/440V 4P	252578
	Ⅱ	65	440	4P	Y	NU6-IIG/F 65kA/440V 4P	252586
	Ⅱ	100	385	4P	N	NU6-□G 100kA/385V 4P	368975
	Ⅱ	100	385	4P	Y	NU6-□G/F 100kA/385V 4P	368983
	Ⅱ	100	440	4P	N	NU6-□G 100kA/440V 4P	368976
	Ⅱ	100	440	4P	Y	NU6-□G/F 100kA/440V 4P	368984