



NU6 - I+II Surge Protective Device

1. Product Overview

NU6- I+II surge protective device conforms to IEC/EN 61643-11 standard. It is applicable to the power distribution and control system with AC 50/60Hz and rated voltage of single phase 230V/three phase 400V. It meets the requirements of SPD Level I and II tests and is used to suppress the transient over-voltage lower than the impulse withstand over-voltage of equipment, discharge the surge energy and protect the system circuit and equipment. Main functional characteristics of surge protective device: It has L-PE, N-PE, L-N protection modes, and is suitable for various power grid systems; With aging and overheating protection, body deterioration indication, plug-in structure, optional remote alarm function.

2. Main Functions

Lightning protection and inlet cabinet surge protection

3. Standard

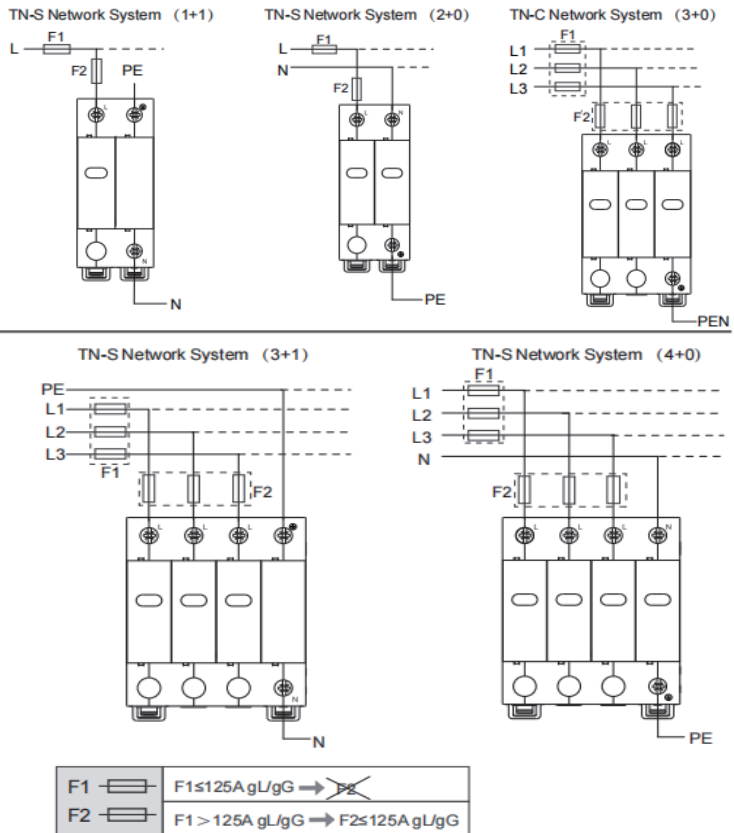
IEC/EN 61643-11

4. Compliance with certification

CE, CB, RoHS, VDE

5. Selection of surge protective device

Choose the corresponding specifications according to different grounding systems and protection modes.



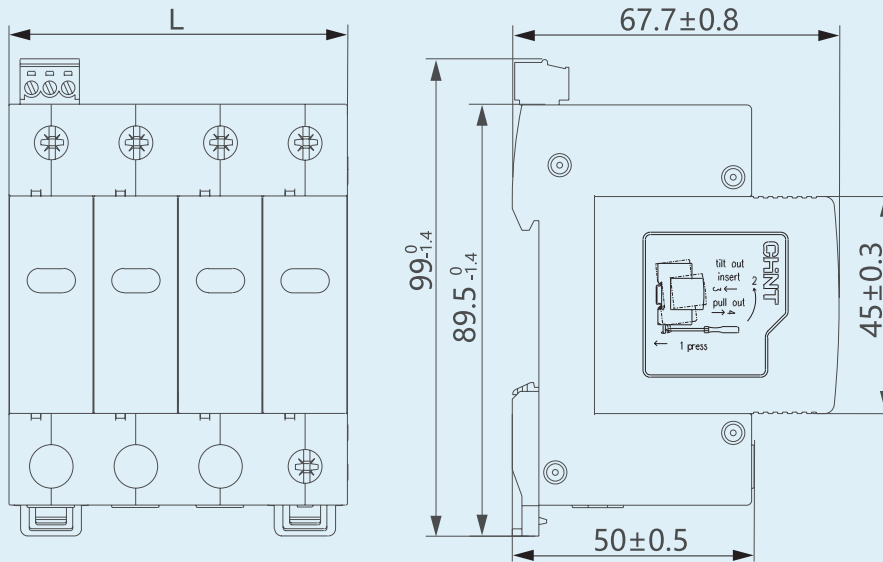
Grounding system	TT	TN-C	TN-S	Remark
Maximum Network Operating Voltage (Us.max)	345V	253V	253V	Refer to IEC 60364-5-534
L-PE/N-PE Protection Mode $U_c=275V$	--	1P, 3P	2P, 4P	
L-PE/N-PE Protection Mode $U_c=385V$	2P, 4P	1P, 3P	2P, 4P	
L-N, N-PE Protection Mode $U_c=255V, 275V, 385V$	1P+N, 3P+N	--	1P+N, 3P+N	

6. Technical data

Product Model Number	NU6-I+II 12.5 1P/2P/3P/4P		NU6-I+II 12.5 1PN/3PN	
	L-PE	N-PE	L-N	N-PE
Protection mode	L-PE	N-PE	L-N	N-PE
Impulse current (10/350 μ s) I_{imp} (kA)	12.5			25/50
Maximum discharge current (8/20 μ s) I_{max} (kA)	50			40/50
Nominal discharge current (8/20 μ s) I_n (kA)	25			30/50
Maximum continuous Operational voltage U_c (V)	275/385			255
Level of protection U_p (kV)	1.5/1.8			1.5
Residual current IPE	1mA			
Ambient temperature($^{\circ}$ C)	-5~+40			
Connecting wire range(mm ²)	2.5 ~ 25			
Recommended connecting lead (mm ²)	Input wire : ≥ 6 , Ground wire : ≥ 10			
Tightening torque (N·m)	2			
Pluggable	be			
Remote alarm capability	Optional			
Remote contact switching capability	AC 250V/1A			
	DC 250V/0.1A; 125V/0.2A; 75V/0.5A			
Cross-sectional area of the conductor at the telecommuni- cation terminal (mm ²)	Maximum 1.5			
Mounting method	TH35-7.5 standard guide rail			
Recommended external disconnecter	Fuse 125A gL/gG or NXSCB- I+II 12.5H			
U_T	336V/5s			1200V/200ms

Overall and mounting dimensions

NU6-I+II/F 12.5kA



Poles	1P	1P+N, 2P	3P	3P+N, 4P
L(mm)	18 ⁰ -0.6	36 ⁰ -1.2	54 ⁰ -1.8	72 ⁰ -2.4

NU6	I+II	/F	12.5	275	1P
Product type	Test class	Telesignal Function	limp	Maximum continuous operational voltage(Uc)	Poles
NU6	I+II	Default: Normal F: With remote signal output	12.5kA	275V 385V	1P 1P+N 2P 3P 3P+N 4P

Diagram	Test class	limp(10/350μs) (kA)	I _{max} (8/20μs) (kA)	U _c (V)	Poles	Telesignal Function	Description	Code
	I+II	12.5	50	275	1P	N	NU6-I+II 12.5/275 1P(R)	585168
	I+II	12.5	50	275	1P	Y	NU6-I+II /F 12.5/275 1P(R)	585174
	I+II	12.5	50	385	1P	N	NU6-I+II 12.5/385 1P(R)	585180
	I+II	12.5	50	385	1P	Y	NU6-I+II /F 12.5/385 1P(R)	585186
	I+II	12.5	50	275	1PN	N	NU6-I+II 12.5/275 1PN(R)	585172
	I+II	12.5	50	275	1PN	Y	NU6-I+II /F 12.5/275 1PN(R)	585178
	I+II	12.5	50	385	1PN	N	NU6-I+II 12.5/385 1PN(R)	585184
	I+II	12.5	50	385	1PN	Y	NU6-I+II /F 12.5/385 1PN(R)	585190
	I+II	12.5	50	275	2P	N	NU6-I+II 12.5/275 2P(R)	585169
	I+II	12.5	50	275	2P	Y	NU6-I+II /F 12.5/275 2P(R)	585175
	I+II	12.5	50	385	2P	N	NU6-I+II 12.5/385 2P(R)	585181
	I+II	12.5	50	385	2P	Y	NU6-I+II /F 12.5/385 2P(R)	585187
	I+II	12.5	50	275	3P	N	NU6-I+II 12.5/275 3P(R)	585170
	I+II	12.5	50	275	3P	Y	NU6-I+II /F 12.5/275 3P(R)	585176
	I+II	12.5	50	385	3P	N	NU6-I+II 12.5/385 3P(R)	585182
	I+II	12.5	50	385	3P	Y	NU6-I+II /F 12.5/385 3P(R)	585188
	I+II	12.5	50	275	3PN	N	NU6-I+II 12.5/275 3PN(R)	585173
	I+II	12.5	50	275	3PN	Y	NU6-I+II /F 12.5/275 3PN(R)	585179
	I+II	12.5	50	385	3PN	N	NU6-I+II 12.5/385 3PN(R)	585185
	I+II	12.5	50	385	3PN	Y	NU6-I+II /F 12.5/385 3PN(R)	585191
	I+II	12.5	50	275	4P	N	NU6-I+II 12.5/275 4P(R)	585171
	I+II	12.5	50	275	4P	Y	NU6-I+II /F 12.5/275 4P(R)	585177
	I+II	12.5	50	385	4P	N	NU6-I+II 12.5/385 4P(R)	585183
	I+II	12.5	50	385	4P	Y	NU6-I+II /F 12.5/385 4P(R)	585189