

NXU -Ⅱ Low-Voltage Surge Arrester

1. Standard

IEC/EN 61643-11

2. Certification

CE

3. Main functions

Lightning protection and incoming cabinet surge protection

4. Parameters and performance

Basic parameters and technical performance indicators (see Table 1)

Table 1

Technical parameter items	Parameter value
Test category	Class II
Maximum discharge current Imax (kA)	20、40
Maximum continuous operating voltage Uc (V~)	255、275、320、385、440
Nominal discharge current In (kA)	10、20
Voltage protection level Up (kV)	1.2、1.5、1.6、1.8、2.0
Number of poles	1P、2P、3P、4P、1P+N、3P+N
Connecting wire (mm2)	≤10（M4）、≤16（M5）
Tightening torque (N · m)	1.5（M4）、2.0（M5）
Protection degree	IP20
Overall dimension	See Figure 2~Figure 3
Backup protection fuse	See Table 3
Short circuit current withstand capacity (kA)	5
Transient overvoltage (TOV) characteristics	Uc: 275V, 320V, low-voltage TOV, withstand mode (UT=336V, tT=5s), fault mode (UT=442V, tT=120min)
	Uc: 385V, 440V, low voltage TOV, not applicable (UT=336V, tT=5s), failure mode (UT=442V, tT=120min)
	Number of poles: 1P, 2P, 3P, 4P, HV TOV not applicable
	255、275、320、385、440

Select corresponding specifications according to different grounding systems and protection modes.

Table 2

Grounding system		TT	TN-C	TN-S	IT	remarks
Maximum operating voltage of power grid Us.max		345V	253V	253V	400V	Refer to IEC60364-5-534
NXU-Ⅱ	L-PE/N-PE protection modea Uc=275V, 320V	——	1P, 3P	2P, 4P	——	Not applicable to inductive load
	L-PE/N-PE protection mode Uc=385V, 440V	2P, 4P	1P, 3P	2P, 4P	3P(440V)	
	L-N/N-PE protection modeb Uc=255V, 275V, 320V, 385V, 440V	1P+N 3P+N	——	1P+N 3P+N	——	440V is recommended for inductive load

aL-PE/N-PE protection mode: phase line to ground and neutral line to ground protection.

bL-N/N-PE protection mode: protection between phase line to neutral line and neutral line to ground.

Selection of backup fuse

Table 3

Model of surge protector	Maximum discharge current (kA)	Backup fuse	
		Rated current (A)	Breaking range
NXU-Ⅱ	20	63	gL/gG
	40	125	gL/gG

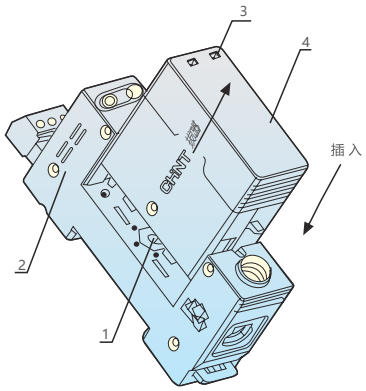
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Special functions:

a.NXU - Ⅱ surge protector is composed of two major parts, namely, sequence 4 protection module and sequence 2 base. Its structure is independent of each other and can be plugged in and out, as shown in Figure 1.

b.The NXU - Ⅱ surge protector is provided with a deterioration indication, as shown in sequence 3 in the figure. After the product deteriorates, it pops up a warning on the surface of the sequence 4 protection module. At this time, the # 4 protection module should be replaced immediately without disconnecting the line or rewiring.

c.Sequence 1 is the maximum continuous working voltage indication device of the surge protector, which can also prevent the module with wrong specification from being inserted when replacing the module. The value indicated by the cardioid sharp corner is the maximum continuous operating voltage of the product.



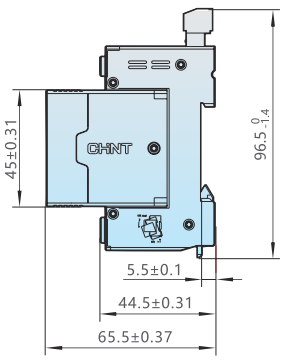
5. Appearance and installation dimensions

See Table 4, Figure 2~Figure 3 for overall dimensions and installation dimensions.

Maximum discharge current Imax(kA)	Overall dimension (mm)					
	1P	1P+N	2P	3P	3P+N	4P
20、40	18	18	18	36	36	36

NXU-II/F(20kA□40kA)

Figure 2 Outline and Installation Dimensions of SPD with Remote Signal Output Contact



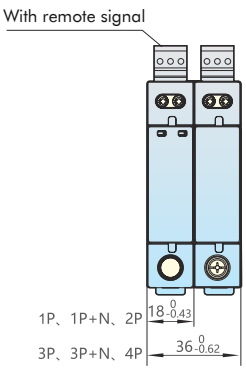


Figure 3 Outline and Installation Dimensions of SPD without Remote Signal Output Contact

