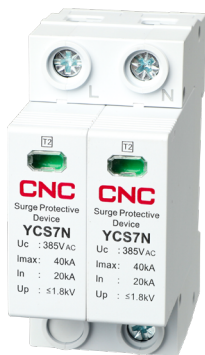


Modular DIN Rail

YCS7N Surge Protection Device



General

YCS7N series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 80kA lightning stroke current.

Type designation

YC S7N - □□□ □□□

Surge protection device	Design code	Level	Lightning impulse current
YC	S7N	- □□□	□□□
CNC	New 7 series	I+II: T1(10/350μs)+T2(8/20μs) /:T2	12.5kA,15kA,20kA, 40kA,60kA,80kA

Feature

1. Installation
- The surge protector's housing size meets the space saving18mm width modulus requirement,so the device is easy to install.The lightning arrester can be easily installed by attaching it to the 35mm guide rail.
2. Characteristics
- Seal structure design, no arc leakage during operation;
 - Modular design, integrated design, more beautiful appearance;
 - Limp12.5kA,15kA, fast response time;
 - Imported high energy graphite, stable performance, safe use;
 - 35mm standard rail installation.
3. the use of advantages
- Switch type modular surge protector, with high lightning current discharge capacity;
 - The unique use of sealed design structure, even in the operation, there will be no leak-age arc;
 - The use of high safety, no continuous flow;
 - No grounding jumper,more convenient installation, more safe;
 - When used with the post-stage voltage limiting typesurge arrester, the two-stage surge arrester can be installedtogether.

Operating Conditions

1. It is needless to adjust the protection device after it has been mounted.
2. Only the protection device is installed appropriately, it can protect the poer grid automati-cally at once;
3. When the protection device is operating,the tablet ot module shall be examined regularly, to check if it glows,meanwhile,observe if the red indicator lamp of fuse brightens. Please change the fault element in time.

Modular DIN Rail

YCS7N Surge Protection Device

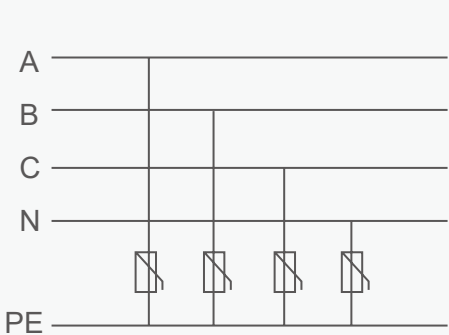
Technical data

Table 1 Variety & spec.of YCS7N series surge protection device

Moedl & spec	Rated operating voltage (Un)	Max continuous operating voltage Uc(V)	Protection level UP(KV)	Nominal operating currentIn 8/20us (kA)	Max effective current 8/20us (kA)	Lightning impulse current 10/350us (kA)	Response time ns	Operating temperature
YCS7N	220V/ 380V	385/420 140/275 320/440	1.0	5	10	/	<2.5	-40~+80℃
YCS7N			1.5	10	20	/		
YCS7N			1.8	20	40	/		
YCS7N			2.0	30	60	/		
YCS7N			2.2	40	80	/		
YCS7N		255/385 /440	2.0	/	/	12.5	<100	
YCS7N			2.0	/	/	15		

Index	Code	N-PE/12.5	N-PE/15
continuous operating voltage Uc(V)		255V/280V/385	
protection level UP(KV)		≤ 1.5KV ≤ 2.0KV ≤ 2.5	
Nominal operating currentin 8/20us (KA)		/	/
Lightning impulse current 10/350us (KA)		12.5	15
Response Time ns		< 100ns	
Color		Blue/Wie	

Main constitution and working principle



380V Network diagram

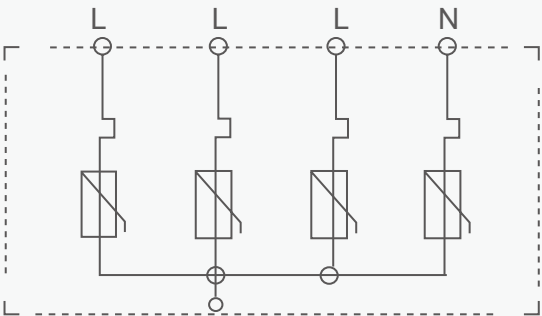
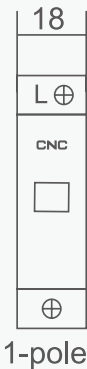
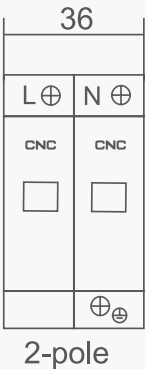
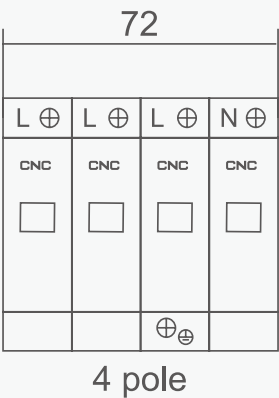
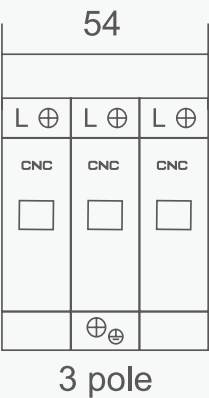
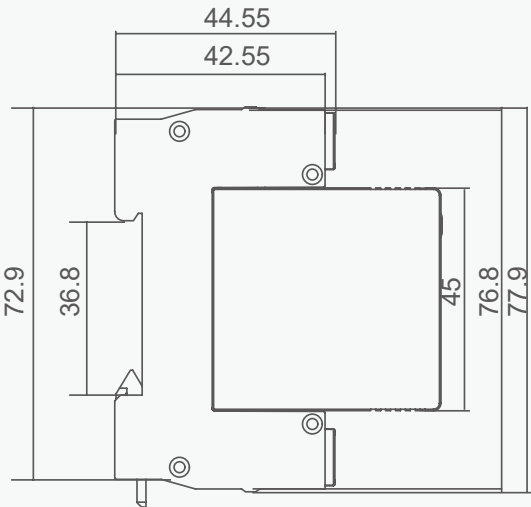


Diagram 2 1 Thermal failure release 2 Piezoresistor

Modular DIN Rail

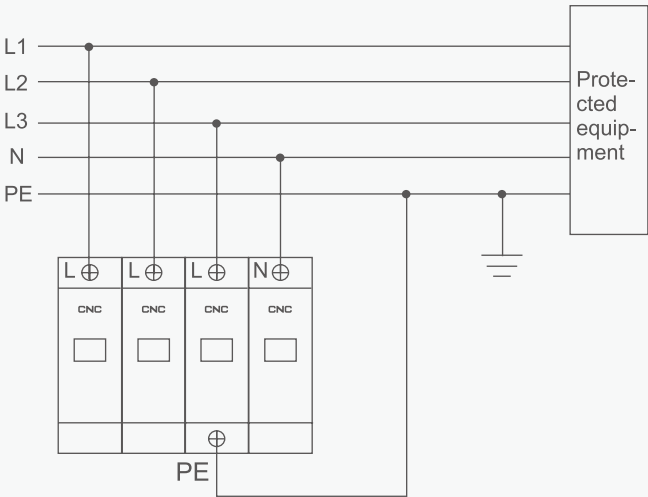
YCS7N Surge Protection Device

Overall and mounting dimensions(mm)

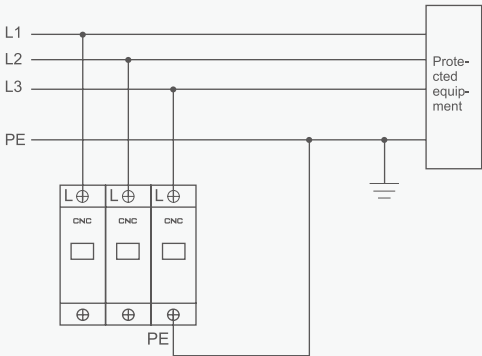


Modular DIN Rail

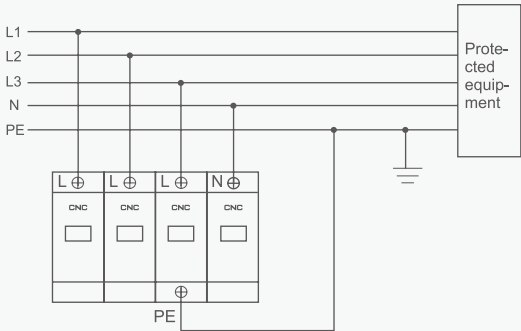
YCS7N Surge Protection Device



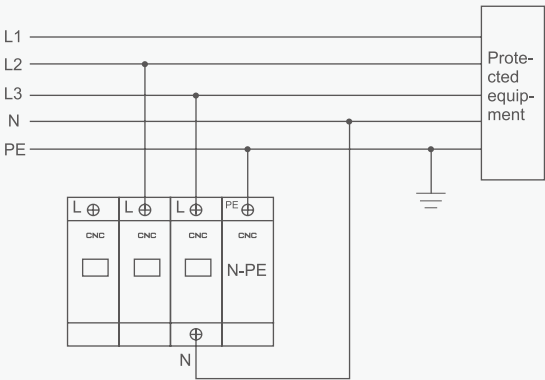
Wiring mode of TN-S power supply system



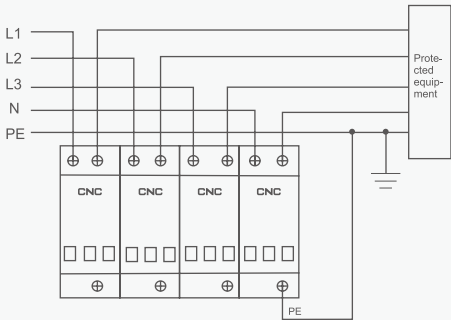
Wiring mode of TN-C power supply system



Wiring mode of TT power supply system



"3+1" wiring mode



Kevin wiring mode