



PRODUCT INTRODUCTION

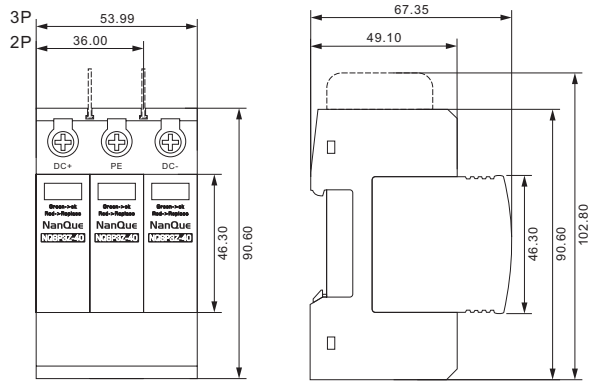
NQSP2Z series high-throughput modular surge protector is suitable for lightning surge overvoltage protection of DC power system, and is used to protect the electrical and electronic equipment on the DC side of the inverter from lightning electromagnetic pulse induced voltage, operation transient and resonance (<100μs)) overvoltage effects. Widely used in power supply systems such as communication equipment, electric power, security, transportation, industrial control, etc., to protect the power grid due to lightning strikes or surge overvoltages, and can discharge a maximum of 40KA lightning strike current. The shell is designed to be installed on a 35mm electrical rail. The detachment device can automatically detach it from the grid, and at the same time the status indicator window turns from green to red.

The product compliant with GB/T 18802.11 and IEC 61643.11 standard

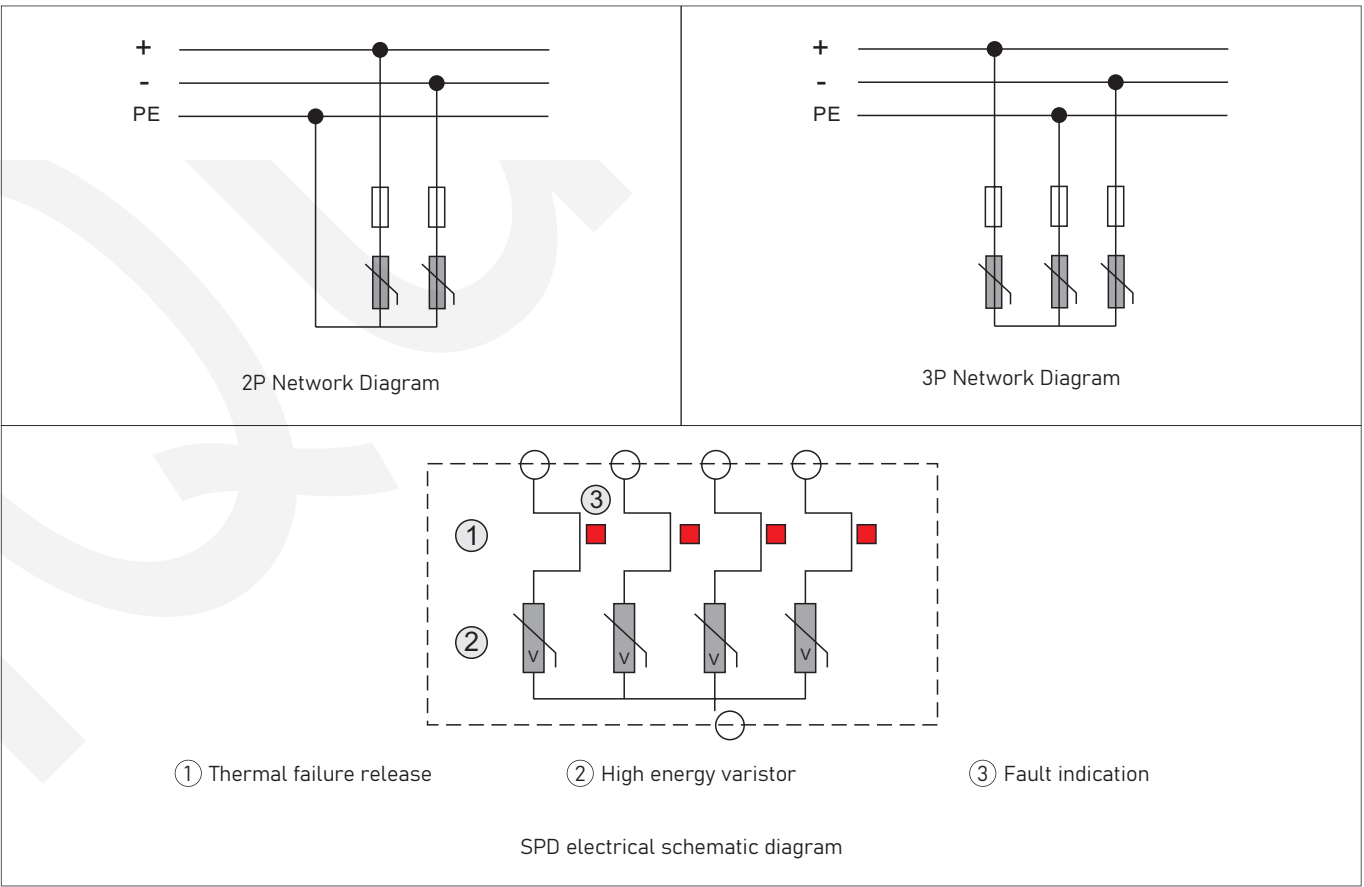
PARAMETERS

Product Model	NQSP3Z-40				
Electrical Characteristics					
Pole Number	2P, 3P				
Rated Working Voltage Un(V) DC	100	250	500	800	1000
Max Working Voltage Uc(V) DC	125	300	560	895	1120
Voltage Protection Level Up(kV)	1.0	1.4	2.0	2.6	3.2
Rated Discharge Current (8/20μs) In(kA)	20				
Max Discharge Current (8/20μs) I _{max} (kA)	40				
Protection Models	2P: L+ to PE, L- to PE. 3P: L+,L- to PE, L+ to L-				
Continuous Working Current U _{cpv}	0.1mA				
Residual Current U _{cpv}	<0.1mA				
Rated Short Circuit Current I _{scpv} (kA)	12				
Thermal Trip Device	Built - in				
Response Time I(ns)	<25				
Test Classification	II				
Mechanical Characteristics					
Environmental Limit Temperature	-40℃~+85℃				
Shell Material	Thermoplastic material meet UL94 - V0				
Installation Characteristics					
Terminal	Tunnel - type Terminal				
Maximum Torque(N.m)	2.5				
Installation	Standard DIN rail (35mm width), Panel bracket installation				
Recommended Fuse or Breaker (A)	16-25				
Recommended Phase/neutral Wire Diameter(mm²)	6-16, Max 25				
Ground Wire PE(mm²)	10-16 Double color, Max 25				

SIZE (UNIT: MM)



MAIN STRUCTURE AND WORKING PRINCIPLE



PRECAUTIONS AND WARNING

- 1, Each product branch circuit shall be equipped with a protection device with a current limiting current less than 32A.
- 2, Before installation, be sure to disconnect the DC power supply. Only connect the wires after confirming the polarity is correct. Avoid reverse connection of positive and negative poles, which may damage the device.
- 3, Regularly check the status indicator of the surge protector. In case of a fault, immediately cut off the power for replacement. Do not operate with power on.
- 4, It is forbidden to use the device beyond the rated voltage and current range. Keep it away from high - temperature and flammable environments to prevent fire risks.
- 5, Non - professionals are not allowed to disassemble or repair it without permission. When replacing, use products of the same specification and model to ensure the protection effect.