

SURGE PROTECTIVE DEVICE



Surge Protective Device

Feature

1. Suitable for AC220V/380V, 50/60Hz power system.
2. Low residual voltage and low leakage current.
3. Thermal trip/fuse function for fast response.
4. Plug-in modular design for easy installation and replacement.
5. Standard 35mm din-rail installation.
6. Status window display
7. Additional alarm switch can be added.
8. Comply with IEC61643 standard

Electrical Characteristics

1. SPD structure: Inner core part is a metal oxide varistor made with zinc oxide.
2. Rated voltage (U_n): The rated voltage of SPD device will be the same with rated voltage of the device being protected.
3. Maximum continuous operating voltage (U_c): 275VAC, U_c should be 15% greater than U_n .
4. Frequency: 50/60 Hz
5. Time: $MOV \leq 25ns$, $NPE \leq 100ns$
6. Voltage protection level (U_p): Less than rated impulse withstand voltage of the device being protected.
7. Life expectancy: It takes voltage surge 10000 times within rated discharge current
8. Operating temperature: $-5^{\circ}C \sim +40^{\circ}C$, relative humidity: 30~99%, operating altitude: 2000 meter below.

Operating Principle

1. Voltage limiting type SPD: Having high impedance when no surges occur and as the surge voltage and current increase, the impedance decrease. By using varistor and transient voltage suppressor (TVS). Leakage current is limited, with fast response time and low residual voltage.
2. Voltage switching type SPD: Having high impedance when no surges occur and become low impedance when surges occur. Use discharge gap and gas discharge tube type parts. Voltage discharge capability is high.

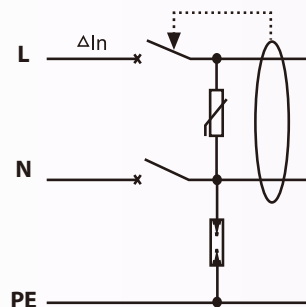
Specification



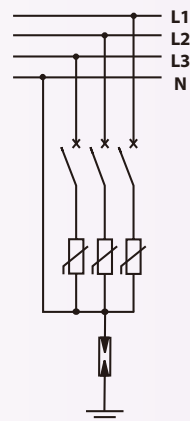
- Class II

Model	Type	Uc	In	I _{max}	U _p	t _A	Pole	Alarm Switch
BHP20M2 1P+1	MOV	275Vac	10kA	20kA	1.2kV	≤25ns	1P+NPE 3P+NPE	250V 0.25A
BHP20M2 3P+1	NPE	255Vac				≤100ns		
BHP40M2 1P+1	MOV	275Vac	20kA	40kA	1.3kV	≤25ns	1P+NPE 3P+NPE	250V 0.25A
BHP40M2 3P+1	NPE	255Vac			1.5kV	≤100ns		
BHP65M2 1P+1	MOV	275Vac	30kA	65kA	1.5kV	≤25ns	1P+NPE 3P+NPE	250V 0.25A
BHP65M2 3P+1	NPE	255Vac				≤100ns		
BHP80M2 3P+1	MOV	275Vac	40kA	80kA	1.7kV	≤25ns	3P+NPE	250V 0.25A
	NPE	255Vac			1.5kV	≤100ns		

Wiring Diagrams

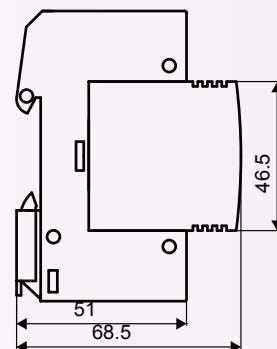
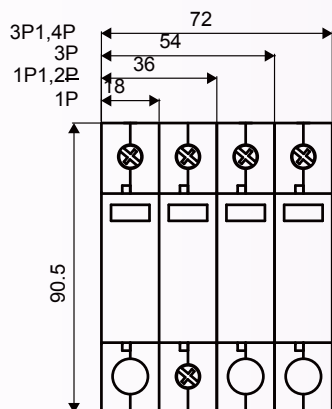


1P+1
(1 x L-N + 1 x N-PE)



Gap discharge
3P+1
(3 x L-N + 1 x N-PE)

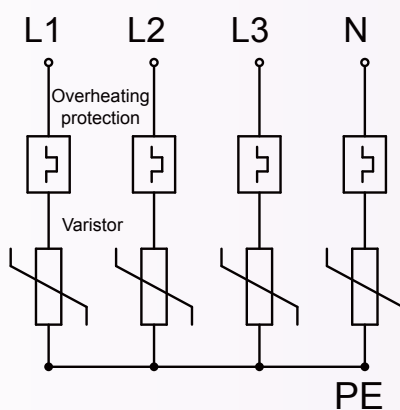
Dimensions (mm)



BHP20M2 / 1P+1 / 3P+1
BHP40M2 / 1P+1 / 3P+1
BHP65M2 / 1P+1 / 3P+1
BHP80M2 / 3P+1

Wiring Example

MOV



BHP20M2 / 1P+1 / 3P+1
BHP40M2 / 1P+1 / 3P+1
BHP65M2 / 1P+1 / 3P+1
BHP80M2 / 3P+1

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