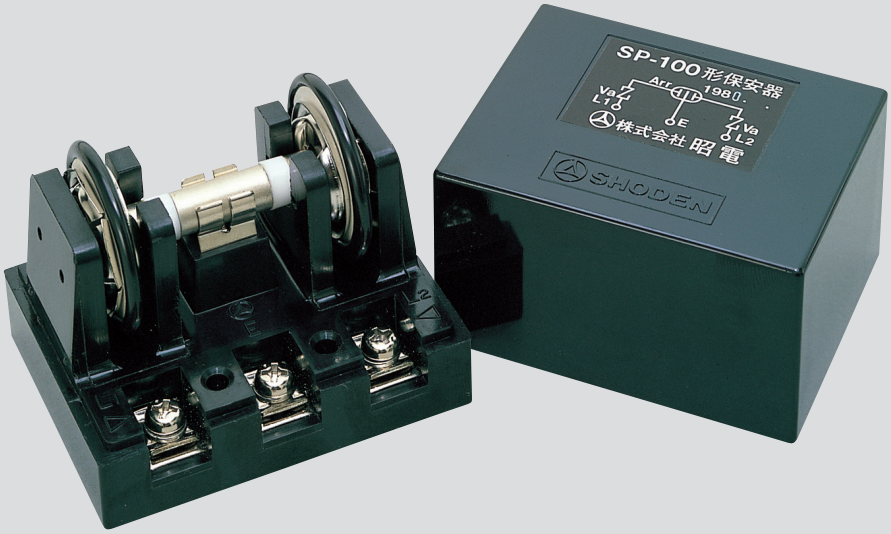
SHODEN

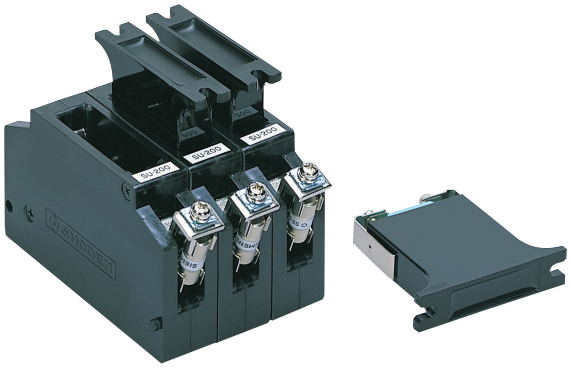
Lightning Protection | Surge Protection

SP,SU series



Lightning protectors corresponding to LPZ2

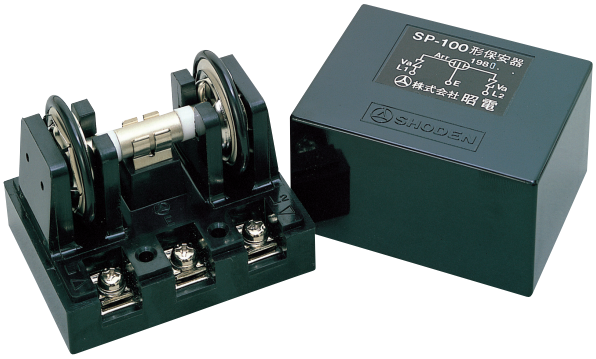
For protection measure of equipments with low current and voltage withstanding



SP series

Used for single phase circuits

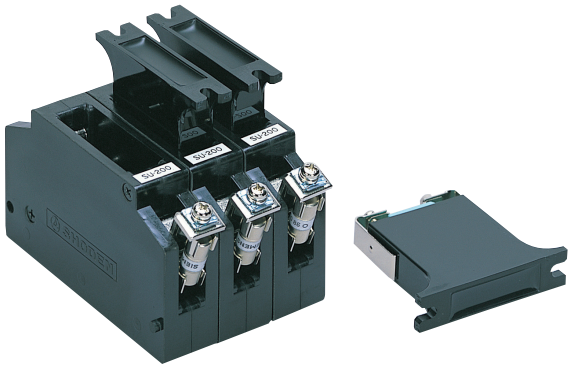
Possible to protect 2 lines (for example; between U and E and V and E) by 1 protector.
High safety is reached due to the place of terminal-part located under cover.



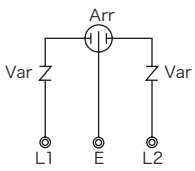
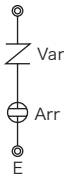
SU series

Used for single, 3 phase and multi-phase circuits

Plug-in type is selected for arrester and also for varistor.
From front the protector can be put-in and take out.



Specifications

Type-name			SP-100, 200		SU-100,200	
Electric characteristics	Voltage of applied circuit		DC110V/AC100V※	AC120V/AC220V	DC110V/AC100V※	AC120V/AC220V
	Circuit diagram					
	Voltage withstanding	between lines	Ac3kV1minute (excluding element)		Ac10kV1minute (excluding element)	
		between line and grounding				
	Insulation resistance	between lines	DC100V100M Ω more than			
		between line and grounding				
Gas-filled arrester	Response voltage to DC-discharge		400 ± 100V	600 ± 120V	350 ± 100V	600 ± 120V
	Response voltage to impulse discharge		less than 1000V	less than 1600V	less than 1000V	less than 1600V
	Discharge withstanding	impulse	20kA(8/20 μs)			
		AC	20A(1 second)			
Varistor	operation voltage	(DC V/mA)	220 ± 35V	440 ± 70V	220 ± 35V	440 ± 70V
	Voltage limitation	(8/20 μs、2,000A)	less than 500V	less than 1200V	less than 500V	less than1200V
	Current withstanding	(8/20 μs)	20kA			

※When in the 100V-system power supply a temporary overvoltage (Utov JIS C 5381-1・12) must be considered, SP-200 types/ SU-200 types should be selected.

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