

# PROTECTION AGAINST ATMOSPHERIC AND SWITCHING OVERVOLTAGE IN AC SYSTEMS

protection of high voltage transmission systems, transformers, switching equipment and HV cable systems



- PSP \*/5 kA** - Line discharge class 1 (outdoor and indoor use)
- PSP \*/10 kA** - Line discharge class 1 (outdoor and indoor use)
- PSP \*/20/IV** - Line discharge class 4 (outdoor and indoor use)
- PSP I \*/20/IV** - Line discharge class 4 (indoor use)
- PSP I \*/10** - Line discharge class 1 (indoor use)
- PSP N \*/10/III** - Line discharge class 3 (indoor use)

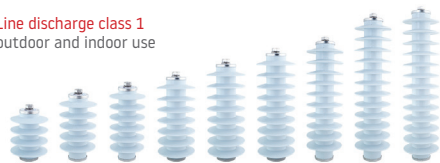
Overvoltage limiters designed for protecting of high-voltage transmission networks; transformers, switching equipment and HV cable distribution systems against of atmospheric and switching overvoltage effects. The functional part of the

limiters consists a column of varistors sized for max. continuous operating voltage  $U_c$ . The outer insulating shell is made from silicon material (grey colour). The material of the shell shows high resistance to the effects of surface leakage currents and to electric arc, possesses hydrophobic properties and shows excellent resistance to weather effects, pollution and UV radiation. The cover caps, connecting screws, nuts and terminals are made of stainless steel. With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

# PROTECTION AGAINST ATMOSPHERIC AND SWITCHING OVERVOLTAGE IN AC SYSTEMS

protection of high voltage transmission systems, transformers, switching equipment and HV cable systems

Line discharge class 1  
outdoor and indoor use

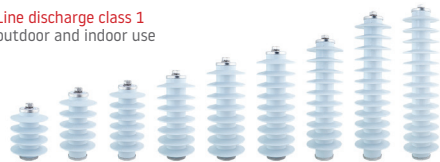


Nominal discharge current  $I_n = 5 \text{ kA}$

PSP \*/5 kA - Line discharge class 1 - overvoltage limiters designed for protecting of high-voltage transmission systems, transformers, switching equipment and HV cable distribution systems against atmospheric and switching overvoltage effects.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

Line discharge class 1  
outdoor and indoor use

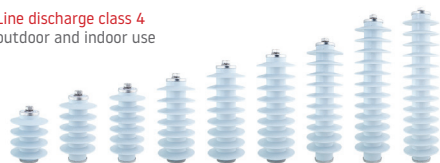


Nominal discharge current  $I_n = 10 \text{ kA}$

PSP \*/10 kA - Line discharge class 1 - overvoltage limiters designed for protecting of high-voltage transmission systems, transformers, switching equipment and HV cable distribution systems against atmospheric and switching overvoltage effects.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

Line discharge class 4  
outdoor and indoor use



Nominal discharge current  $I_n = 20 \text{ kA}$

PSP \*/20/IV - Line discharge class 4 - overvoltage limiters designed for protecting of high-voltage transmission systems, transformers, switching equipment and HV cable distribution systems against atmospheric and switching overvoltage effects.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

Line discharge class 4  
indoor use



Nominal discharge current  $I_n = 20 \text{ kA}$

PSPI \*/20/IV - Line discharge class 4 - overvoltage limiters designed for protecting of high-voltage transmission systems, transformers, switching equipment and HV cable distribution systems against atmospheric and switching overvoltage effects.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

Line discharge class 1  
indoor use



Nominal discharge current  $I_n = 10 \text{ kA}$

PSPI \*/10 - Line discharge class 1 - overvoltage limiter designed for internal use to protect high-voltage transmission systems, transformers, switching equipment, HV cable distribution systems and in particular, cable heads of enclosed substations from the effects of atmospheric and switching overvoltage.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

Line discharge class 3  
indoor use



Nominal discharge current  $I_n = 10 \text{ kA}$

PSPN \*/10/III - Line discharge class 3 - overvoltage limiters designed for protecting of high-voltage transmission systems, transformers, switching equipment and HV cable distribution systems against atmospheric and switching overvoltage effects.

With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards EN 60099-4: 2014 and IEC 60099-4: 2014.

