

OVERVOLTAGE LIMITER PSP */5kA - LINE DISCHARGE CLASS 1

The limiters are suitable for both outdoor and indoor use

OVERVOLTAGE LIMITER

PSP */5kA

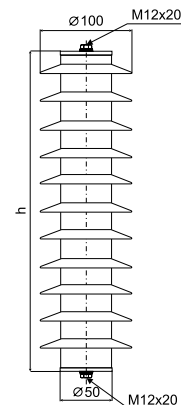
LINE DISCHARGE CLASS 1

OUTER LIMITER - AC NETWORKS



OVERVOLTAGE LIMITER PSP */5kA - LINE DISCHARGE CLASS 1

PSP */5kA – energy class I – overvoltage limiters designed for protecting high-voltage transmission networks; transformers, switchgear and HV cable distribution systems from the effects of atmospheric and switching overvoltage. The functional part of the limiters consists of a column of varistors sized for continuous operating voltage U_c , the outer insulating shell is composed of silicon caoutchouk (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 suitable for the connection of a conductor with a diameter of 6 to 16 mm. With their design and technical parameters, the overvoltage limiters of the PSP series conform to the standards IEC/TC (37.13), IEC 60099-4 and EN 60099-4.



Technical data		PSP 7/5	PSP 10/5	PSP 12/5	PSP 14/5	PSP 17/5	PSP 22/5	PSP 24/5	PSP 25/5	PSP 30/5	PSP 36/5	PSP 39/5
Max. continuous operating voltage (AC)	U_c	7 kV	10 kV	12 kV	14,5 kV	17 kV	22 kV	24 kV	25 kV	29 kV	36 kV	39 kV
Nominal voltage (AC)	U_n	9 kV	12 kV	15 kV	18 kV	21 kV	27 kV	30 kV	30 kV	36 kV	45 kV	48 kV
Nominal discharge current	I_n	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA	5 kA
High impulse current (4/10)		2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA	2x65 kA
Long current impulse (2ms)		150 A	150 A	150 A	150 A	150 A	150 A	150 A	150 A	150 A	150 A	150 A
Discharge class acc. to EN 60099-4		1	1	1	1	1	1	1	1	1	1	1
Residual voltage at I_n	U_{res}	≤ 27 kV	≤ 35 kV	≤ 45 kV	$\leq 52,2$ kV	≤ 62 kV	≤ 79 kV	≤ 88 kV	≤ 88 kV	≤ 108 kV	≤ 131 kV	≤ 140 kV
Height	h	135 mm	157 mm	175 mm	196 mm	220 mm	262 mm	280 mm	280 mm	325 mm	380 mm	400 mm
Operating temperature range	θ	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$	$-35^\circ\text{C} \div +55^\circ\text{C}$
Weight	m	0,9 kg	1 kg	1,1 kg	1,3 kg	1,4 kg	1,7 kg	1,9 kg	1,9 kg	2,15 kg	2,5 kg	2,7 kg
Article number		91001	91016	91004	91018	91006	91020	91010	91008	91022	91012	91014

Transport and storage

The overvoltage limiters may not be exposed to strong shocks and impacts during transport. They should be stored in the long term in an indoor store.

Maintenance

No testing of the function or maintenance such as cleaning is necessary during the anticipated life of the limiter.

