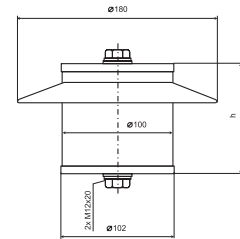


**OVERVOLTAGE LIMITER PSP \*/20/IV - LINE DISCHARGE CLASS 4**  
 outdoor and indoor use



PSP \*/20/IV - overvoltage limiters designed to protect converter stations and DC systems of electric traction systems linked to them from the effects of atmospheric and switching overvoltage. They are used for protecting traction lines, electrical equipment of trolleybuses, trams and electric trains. They do not require any maintenance during their operation. The PSP \*/20/IV series is intended for outdoor and indoor applications. 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 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, IEC 60099-4: 2014 and EN 50526-1: 2012.

Type		PSP 1/20/IV	PSP 1/20/IV SL	PSP 2/20/IV	PSP 3/20/IV	PSP 4,2/20/IV	PSP 4,7/20/IV
Continuous operating voltage (DC) $U_c (= U_r)$ *		1,2 kV	1 kV	1,94 kV	3,5 kV	4,2 kV	4,7 kV
Nominal discharge current	$I_n$	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Use in power net		600/750 V	600 V	1500 V	special application	3000 V	3000 V
High impulse current (4/10)		2 x 100 kA	2 x 100 kA	2 x 100 kA	2 x 100 kA	2 x 100 kA	2 x 100 kA
Long current impulse (2 ms)		1350 A	1350 A	1350 A	1350 A	1350 A	1350 A
Discharge class acc. to EN 60099-4		4	4	4	4	4	4
Residual voltage at $I_n$	$U_{res}$	$\leq 3,1$ kV	$\leq 2,7$ kV	$\leq 5,4$ kV	$\leq 9,3$ kV	$\leq 11,8$ kV	$\leq 12,4$ kV
Height	$h$	85 mm	85 mm	102 mm	117 mm	130 mm	134 mm
Operating temperature range	$\vartheta$	- 40 °C ÷ + 55 °C					
Protection type		IP65					
Weight	$m$	2 kg	2 kg	2,5 kg	3,1 kg	3,5 kg	3,65 kg
Article number		92005	92005 SL	92006	92007	92010	92008

\*The rated voltage  $U_r$  of the arrester coincides with the continuous operating voltage  $U_c$ .  
**Note:** The height and weight are indicative only and may vary. We can send accurate data on your request.