

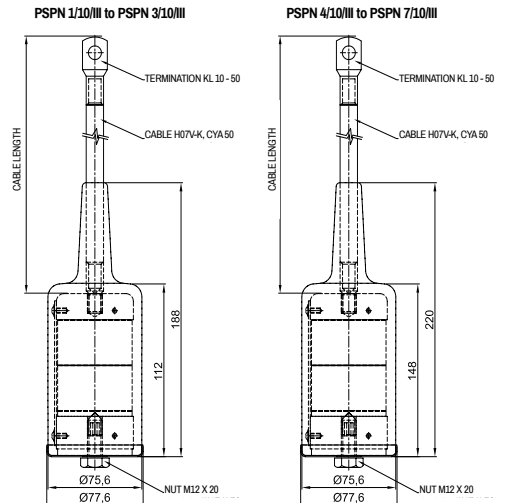
OVERVOLTAGE LIMITER PSPN */10kA - LINE DISCHARGE CLASS 3
PSPN */10/III are suitable for use in both AC and DC networks

OVERVOLTAGE LIMITER
PSPN */10kA
LINE DISCHARGE CLASS 3
INNER LIMITER - AC or DC NETWORKS



OVERVOLTAGE LIMITER PSPN */10kA - LINE DISCHARGE CLASS 3

PSPN */10/III is an overvoltage limiter as per ČSN EN 60099-4 (line discharge class 3) and as per ČSN EN 50163 designed to protect converter stations and DC networks of electric traction systems linked to them from the effects of atmospheric and switching overvoltage. They do not require any maintenance during operation. The PSPN */III series is intended for indoor applications. PSPN 7/10/III is suitable e.g. for the protection of AC mining distribution systems of 6 kV_{ef} networks. The functional part of the limiters consists of a column of varistors sized for continuous operating voltage U_{c0} ; 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 cap, 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 PSPN series conform to the standards ČSN EN 60099-4, IEC 60099-4 a ČSN EN 61643-11, IEC 61643-11.



Standard cable length 0.5 metres. Other lengths are also possible at the customer's request.

Technical data		PSPN 1/10/III	PSPN 2/10/III	PSPN 3/10/III	PSPN 4/10/III	PSPN 5/10/III	PSPN 6/10/III	PSPN 7/10/III
Max. continuous operating voltage (AC/DC)	U_c	1 kV	2 kV	3 kV	4 kV	5 kV	6 kV	7 kV
Nominal voltage (AC/DC)	U_n	1,25 kV	2,5 kV	3,75 kV	5 kV	6,25 kV	7,5 kV	8,75 kV
Nominal discharge current	I_n	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA	10 kA
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	2 x 100 kA
Long current impulse (2ms)		850 A	850 A	850 A	850 A	850 A	850 A	850 A
Discharge class acc. to EN 60099-4		3	3	3	3	3	3	3
Residual voltage at I_n	U_{res}	≤ 3,5 kV	≤ 7 kV	≤ 10,7 kV	≤ 14,5 kV	≤ 18,3 kV	≤ 21,4 kV	≤ 25 kV
Height	h	95 mm	95 mm	95 mm	130 mm	130 mm	130 mm	130 mm
Bending strenght		350 Nm	350 Nm	350 Nm	350 Nm	350 Nm	350 Nm	350 Nm
Torsion strenght		70 Nm	70 Nm	70 Nm	70 Nm	70 Nm	70 Nm	70 Nm
Operating temperature range	θ	-35°C + + 55°C	-35°C + + 55°C	-35°C + + 55°C	-35°C + + 55°C	-35°C + + 55°C	-35°C + + 55°C	-35°C + + 55°C
Weight	m	1,6 kg	1,6 kg	1,6 kg	2,3 kg	2,3 kg	2,3 kg	2,3 kg
Article number		97001	97002	97003	97004	97005	97006	97007

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.

Advantages

- Long protective distance
- High absorption capacity
- Stable U-I characteristics even after repeated discharges
- Resistance to ageing
- Design resistant to explosion and bursting
- Resistance to pollution and UV radiation
- Resistance of the shell to rough handling
- Maintenance-free design
- Resistance to shocks and vibrations
- High mechanical resistance

