



AC 117

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# CERTIFICATE OF CONFORMITY

**No. DZC.522.83.2022**

**Issue No. 01 of 2022.09.13**

*Name and address of  
the Certificate Holder:*

Protektel Sp. z o.o.  
62 Piłsudskiego Str.  
06-300 Przasnysz

*Name of the product:*

Surge arrester MV

*Type:*

PROXAR-IIW AC

*Manufacturer:*

Protektel Sp. z o.o.  
62 Piłsudskiego Str.  
06-300 Przasnysz

*Parameters and  
application of product:*

According to appendix  
Surge arrester designed for protection of overvoltage of AC power  
network

*The product meets  
requirements of:*

IEC 60099-4:2014 (ed. 3.0)

*According to the  
report made by:*

Instytut Energetyki

*Number of the  
product evaluation report:*

DZC.522.83.2022

*Period of validity:*

from 13<sup>th</sup> of September 2022 until 12<sup>th</sup> of September 2025

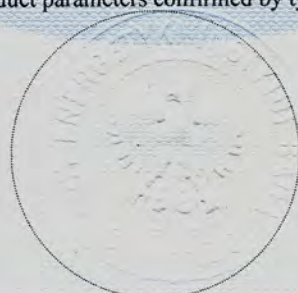
The right to use the certificate of conformity within its validity period applies only to:

- these copies that meet the requirements specified above and have the same characteristics (parameters) as the model / product samples submitted for testing,
- certificate holder or his authorized representative.

The list of evidenced parameters is included in the appendices to the certificate of conformity.

Number of appendices: 1

THE SYSTEM OF PRODUCT CERTIFICATION PC\_1a (Program 1a acc. to PN-EN ISO/IEC 17067:2014-01)  
(product parameters confirmed by type test)



pp of the DIRECTOR OF  
INSTYTUT ENERGETYKI

dr inż. Andrzej Sławiński

Warsaw, 2022.09.13



**APPENDIX TO THE CERTIFICATE OF CONFORMITY**  
**No. DZC522.83.2022**  
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**LIST OF EVIDENCED PARAMETERS**

Rated voltage [ $U_r$ ]	1,13 ÷ 30 kV
Continuous operating voltage [ $U_c$ ]	0,9 ÷ 24 kV
Residual voltage at nominal discharge current [ $U_{res}$ ]	2,8 ÷ 73,7 kV
Residual Voltage at switching impulse current [ $U_{ps}$ ]	2,3 ÷ 60,4 kV
Nominal discharge current [ $I_n$ ] (8/20 $\mu$ s)	10 kA
Switching current impulse (30/60 $\mu$ s)	1 kA
Discharge current withstand strength at: - high current impulse (4/10 $\mu$ s) - long-duration current impulse in 2 ms (based on $Q_{rs}$ )	100 kA 600 A
Short-circuit withstand current (0,2 s)	31,5 kA
Rated repetitive charge transfer rating [ $Q_{rs}$ ]	1,6 C
Rated thermal energy [ $W_{th}$ ]	7 kJ/kV ( $U_r$ )
Single impulse energy capability (virtual impulse duration 2 ms ÷ 4 ms)	3,5 kJ/kV ( $U_r$ )
Class and designation of the arrester	station – SM
Partial discharge level at $1,05 \times U_c$	$\ll 10$ pC <sup>1)</sup>
Mechanical endurance: - 1000 cycles (SLL) - bending moment (SSL)	350 Nm 560 Nm
Mechanical strength against torsional load	100 Nm
Power-frequency versus time characteristic (TOV)	positive result

**NOTES: -**

- 1) <sup>1)</sup>During the initial measurements in the type tests, the results were less than 5 pC.

