



AC 117

INSTYTUT ENERGETYKI

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CERTIFICATE OF CONFORMITY

No. 077/2021

Issue No. 01 of 2021.09.17

Name and address of the Certificate Holder:

PROTEKTEL Sp. z o.o.
92 Piłsudskiego Str.
06-300 Przasnysz

Name of the product:

Metal-oxide surge arresters without gaps

Type:

PROXAR-IN AC

Manufacturer:

PROTEKTEL Sp. z o.o.
92 Piłsudskiego Str.
06-300 Przasnysz

Parameters and application of the product:

According to appendix
Protection of devices against the effects of atmospheric and
switching overvoltages in MV power systems

The product meets requirements of:

IEC 60099-4:2014 (ed. 3.0)

According to the evaluation report made by:

Instytut Energetyki

Number of the evaluation report:

DZC/127c/E/2021-1

Period of validity:

from 17th of September 2021 until 16th of September 2024

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)



DIRECTOR OF
INSTYTUT ENERGETYKI

Tomasz Gałka
dr hab. inż. Tomasz Gałka, prof. IEN

Warsaw, 2021.09.17



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APPENDIX TO THE CERTIFICATE OF CONFORMITY
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LIST OF EVIDENCED PARAMETERS

Rated voltage [U_r]	1,2 kV ÷ 48 kV
Continuous operating voltage [U_c]	1,0 kV ÷ 38,4 kV
Residual voltage at nominal discharge current [U_{res}]	3,2 ÷ 129,6 kV
Nominal discharge current [I_n] (8/20 μ s)	10 kA
Capability at specified impulse current: - one high current impulse (4/10 μ s) - two lightning current impulses 8/20 μ s (based on Q_{rs})	100 kA 0,55 C
Short-circuit withstand current (0,2 s)	31,5 kA
Rated repetitive charge transfer rating [Q_{rs}]	0,4 C
Rated thermal charge transfer rating [Q_{th}]	1,1 C
Class and designation of the arrester	Distribution – DH
Partial discharge level at $1,05 \times U_c$	$\ll 10$ pC ¹⁾
Mechanical strength: SSL SLL	336 Nm 210 Nm
Mechanical strength against torsional load	50 Nm
Power-frequency versus time characteristic (TOV)	positive result
1000 h weather ageing: - in salt mist - resistance of the housing material to UV radiation	positive result positive result
Work conditions	Normal

NOTES: -

1. ¹⁾During the initial measurements in the type tests, the results were less than 5 pC.

