



## **SURGE ARRESTER FOR DC SYSTEM VOLTAGE TYPE PROXAR-VW DC IN SILICONE HOUSING**

### **CATALOGUE CARD**

#### **APPLICATION**

Surge arresters type **PROXAR-VW DC** in silicone housing are intended to protection of DC power energy networks against multiple lightning and switching and temporary overvoltages. For use in ultra-fast circuit breaker, also used for protection chokes and filters. This surge arrester is destine to all special technical requirements.

#### **OPERATING CONDITIONS**

Surge arresters adapted for indoor installation temperate and tropical climate up to 1000 m over sea. Dimension of surge arresters enable easy installation in breaker switch chamber, supply station and locomotive.

#### **ADVANTAGE**

- Efficient protection characteristics
- Very high energy input capacity
- Stable U-I characteristics even after multiple strokes
- Housing resistant to rough handling
- Explosion and shatter – resistant designee
- Resistant pollution and UV
- Stable against shock and vibration
- Maintenance free

#### **ACCESSORIES**

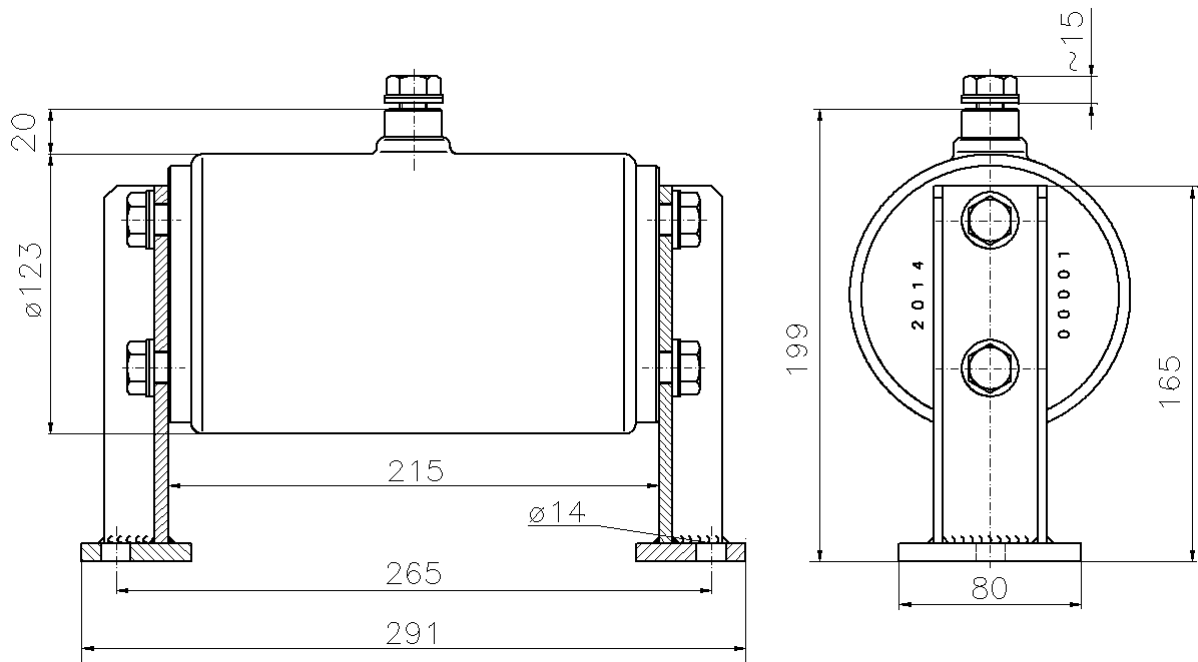
For request of customer manufacturer can delivery accessories according customer agreement.

#### **TECHNICAL DATA**

System voltage ( $U_{nDC}$ )	3 kV
Continuous operating voltage ( $U_{cDC}$ )	4.5 – 5.0 kV
Nominal discharge current $I_n$ 8/20 $\mu$ s	40 kA
High current impulse $I_{hc}$ 4/10 $\mu$ s	300 kA
Long duration current impulse, 2000 $\mu$ s	2700 A*
Line discharge class according to IEC 60099-4: 2009	5
Line discharge class according to EN 50526-1: 2012	DC-C
Energy capability, 2 impulses	21 kJ/kV of $U_c$ dc*
Service conditions:	
- temperature	-40 °C do +40 °C*
- altitude up to	1000 m
Creepage distance	92 mm
Weight	9.0 kg

\*) For higher values please contact with manufacturer.

TYPE PROXAR-VW DC	Continuous operating voltage (DC) U <sub>c</sub>	Residual voltage in kV pk at a specified impulse current								
		Wave 1/... μs		Wave 8/20 μs				Wave 30/60 μs		
		20kA	40kA	10kA	20kA	40kA	60kA	1kA	2kA	4kA
4.5	4.5	12.0	13.0	10.6	11.2	12.0	13.0	9.1	9.3	9.8
4.7	4.7	12.5	13.6	11.1	11.7	12.5	13.6	9.5	9.7	10.2
5.0	5.0	13.0	14.1	11.5	12.2	13.0	14.1	9.9	10.1	10.6



**PROTEKTEL Sp. z o.o.**  
 Piłsudskiego 92 str  
 06-300 Przasnysz  
 Poland  
 Tel./Fax +48 029 7525784  
 E-mail: [protektel@protektel.pl](mailto:protektel@protektel.pl)  
[www.protektel.pl](http://www.protektel.pl)  
 Check out our [dc surge arresters](#)

#### ATTENTION

The manufacturer reserves the right to change technical data or designee without prior notice.  
**PROXAR®** is a registered trademark newest family of surge arresters produced by Protektel