

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

CATALOGUE CHART

APPLICATION

PROXAR-VW DC surge arresters in silicone housing are designed to protect DC power networks against multiple lightning, switching and momentary overvoltage's. For use in ultrafast circuit breakers, also used for protective chokes and filters. This arrester is designed for all special technical requirements.

OPERATING CONDITIONS

Surge arresters adapted for outdoor and indoor installation in temperate and tropical climate. Possibility of installation in any working position. The dimensions of the surge arresters enable easy installation in the circuit breaker chamber, power supply station and locomotive.

ADVANTAGE

- Low residual voltage
- High energy input capacity
- Stable U-I characteristics even after absorbing multiple surges
- Housing resistant to rough handling
- Explosion and shatter – resistant design
- Pollution resistant and UV
- Ability to install in any position (vertically or horizontally)
- Maintenance free
- Low weight, easy transportation and storage
- Ability to work in horizontal position
- Stable against shock and vibration

ADDITIONAL EQUIPMENT

At the customer's request, the manufacturer can supply accessories as agreed with the customer.

ELECTRICAL DETAILS

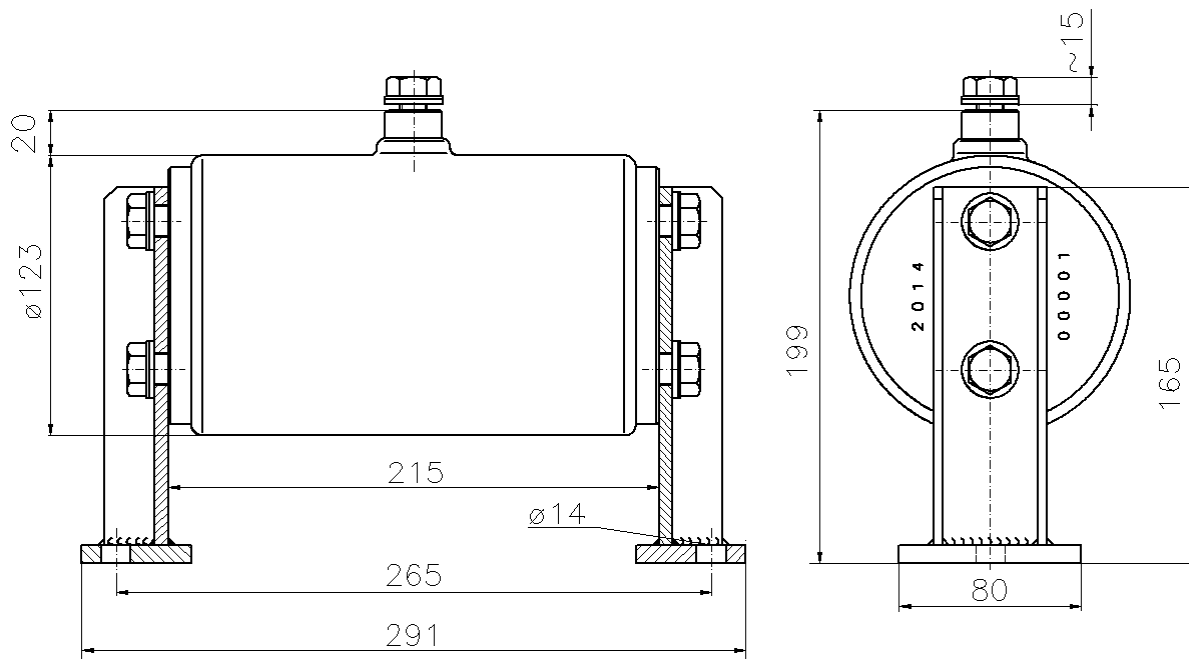
Line discharge class according to EN 50526-1: 2012	DC-C
Line discharge class according to IEC 60099-4: 2009	5
System voltage (U_{DC})	3 kV
Continuous operating voltage (U_{CDC})	4.5 – 5.0 kV
Nominal discharge current I_n 8/20 μs	40 kA
High current impulse I_{hc} 4/10 μs	300 kA
Long duration current impulse resistance, 2000 μs	2700 A*
Energy absorption 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.

ELECTRICAL DATA

Type PROXAR-VW DC	Continuous operating voltage (DC) Uc	Residual voltage in kV pk at a specified impulse current							
		Wave 1/... μs	Wave 8/20 μs				Wave 30/60 μs		
		40kA	10kA	20kA	40kA	80kA	1kA	2kA	4kA
	kV	kV	kV	kV	kV	kV	kV	kV	kV
4.5	4.5	12.80	10.60	11.20	12.00	13.00	9.00	9.50	10.00
4.7	4.7	13.25	11.10	11.70	12.50	13.60	9.70	10.00	10.50
5.0	5.0	13.80	11.60	12.20	13.00	14.10	10.10	10.50	11.00

At the customer's request, it is possible to make a special version of the surge arrester for other voltages.



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ATTENTION

Note: The manufacturer reserves the right to change technical data or designee without prior notice.
PROXAR® is a registered trademark of the latest family of surge arresters made by Protektel.