

# HUBBELL Power Systems

## PDV-100 Optima Arrester (5.1 kV Uc, CCAA Hardware)

By OHIO BRASS  
Catalog # [294205CCAA](#)

IEEE Heavy Duty / IEC Distribution High Polymer Housed Surge  
Arrester



### Features

- Over 35 years of excellent field performance with over 40 million distribution arresters installed
- Long lasting ESP™ housing material with superior mechanical strength and electrical characteristics
- Reliable capacitive disconnecter operates at fault currents as low as 1 Amp
- Dynamic triple sealing system protects internal components from moisture ingress to extend service lifetime
- High quality MOV discs made in Wadsworth, Ohio since 1978
- Arresters assembled in Aiken, South Carolina
- 100% routine tested

### General

|              |                      |
|--------------|----------------------|
| Application  | Distribution         |
| Bracket Type | None                 |
| Color        | Gray Housing         |
| Material     | ESP™ Polymer Housing |
| Type         | Distribution         |

### Dimensions

|           |     |
|-----------|-----|
| Stud Type | M12 |
|-----------|-----|

### Electrical Ratings

|  |   |
|--|---|
| Creep and Leakage Distance                                   | 11.3 in (287 mm)  |
| Current - Low Current Long Duration (LCLD) Test              | 250   |
| Duty Cycle   | 6 kV  |
| Frequency Rating   | 48-62 Hz  |
| MCOV   | 5.1 kV  |
| Maximum .5 Microsecond Discharge Volts @ Classifying Current | 22.4 kV   |
| Maximum Discharge Voltage                                    | 16 kV @ 1.5 kA<br>17.1 kV @ 3 kA<br>18.2 kV @ 5 kA<br>19.8 kV @ 10 kA<br>22.5 kV @ 20 kA<br>26.5 kV @ 40 kA |
| Maximum Switching Surge Protective Level @ 500A              | 14.7 kV   |
| Pressure Relief Capability-Symmetrical rms (kA)              | 20  |
| Time - Low Current Long Duration (LCLD) Test                 | 2000 Qs   |
| Withstand Voltage - 60 Hz Wet                                | 15.7  |
| Withstand Voltage - Lightning Impulse                        | 31.7  |

## Product Assets

[Brochures - Ohio Brass Sets the Standards for Arresters](#)

[Catalogs - Arresters IEEE & IEC Distribution Class](#)

[Installation Manuals - Installation Instructions for PDV/PVR](#)

[Arresters - Spanish](#)

[Installation Manuals - Installation Instructions for PDV/PVR](#)

[Arresters - Chinese](#)

[Installation Manuals - Installation Instructions for PDV/PVR](#)

[Arresters - French](#)

[Installation Manuals - PDV-PVR Polymer Distribution Class](#)

[Arrester Installation Instructions](#)

[ISO Certificates - ISO 9001:2015 - Hubbell Power Systems Inc.](#)

[Effective 2020-2023, Multi-site \(English\)](#)

[ISO Certificates - ISO 14001:2015 - Hubbell Power Systems Inc.](#)

[Literature - Hubbell Arrester and Wildlife Guard Solution Kits](#)

[Literature - Lightning Surge Arresters](#)

[Literature - Application Guide: Metal-oxide Surge Arresters for use on AC systems](#)

[Video - Hubbell Power Systems In Depth: Distribution Arresters](#)

[Video - Hubbell Power Systems Metal Oxide Varistor](#)



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