

## PDV-100 Optima Arrester (24.4 kV U<sub>c</sub>, CCBI Hardware)

By OHIO BRASS  
Catalog # 294224CCBI

IEEE Heavy Duty / IEC Distribution High Polymer Housed Surge Arrester



\*Representative Image

### 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

### Application

Distribution

### General

Bracket Type	NEMA Crossarm Bracket
Color	Gray Housing
Material	ESP™ Polymer Housing
Type	Distribution

### Dimensions

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

### Electrical Ratings

Creep and Leakage Distance	42.5 in (1079 mm)
Current - Low Current Long Duration (LCLD) Test	250
Duty Cycle	30 kV
Frequency Rating	48-62 Hz
MCOV	24.4 kV
Maximum .5 Microsecond Discharge Volts @ Classifying Current	105.2 kV
Maximum Discharge Voltage	<ul style="list-style-type: none"> <li>• 76 kV @ 1.5 kA</li> <li>• 81.4 kV @ 3 kA</li> <li>• 86.2 kV @ 5 kA</li> <li>• 94 kV @ 10 kA</li> <li>• 106.8 kV @ 20 kA</li> <li>• 125.9 kV @ 40 kA</li> </ul>
Maximum Switching Surge Protective Level @ 500A	69.6 kV
Pressure Relief Capability-Symmetrical rms (kA)	20
Time - Low Current Long Duration (LCLD) Test	2000
Withstand Voltage - 60 Hz Wet	68.3
Withstand Voltage - Lightning Impulse	150.2

### Product Assets

[Brochures - Ohio Brass Sets the Standards for Arresters \(EU1587\)](#)  
[Catalogs - Arresters IEEE & IEC Distribution Class \(CA01065E\\_Catalog 70\)](#)  
[Installation Manuals - PDV-PVR Polymer Distribution Class Arrester Installation Instructions \(17-5122\)](#)  
[Installation Manuals - Installation Instructions for PDV/PVR Arresters - Chinese \(17-5122C\)](#)  
[Installation Manuals - Installation Instructions for PDV/PVR Arresters - French \(17-5122F\)](#)  
[Installation Manuals - Installation Instructions for PDV/PVR Arresters - Spanish \(17-5122S\)](#)  
[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 - Application Guide: Metal-oxide Surge Arresters for use on AC systems \(TD01135E\)](#)  
[Literature - Lightning Surge Arresters \(SF01023E\)](#)  
[Literature - Hubbell Arrester and Wildlife Guard Solution Kits](#)

(SF14069E)

Video - Hubbell Power Systems In Depth: Distribution Arresters (VI01037E0119)

Video - Hubbell Power Systems Metal Oxide Varistor (VI01022E0718)



**A proud member of the Hubbell Family.**

©2024 Hubbell Incorporated. All rights reserved.  
OB-294224CCBI-SPEC-EN | REV 1/2024