

## PDV-100 Optima Arrester (8.4 kV MCOV, 7214 Hardware)

By OHIO BRASS  
Catalog # 2137097214

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	None
Cantilever Bending Strength - Max.	80 Nm
Color	Gray Housing
EU RoHS Indicator	Contact Manufacturer
Material	ESP™ Polymer Housing
Mounting Position	Upright
Type	Distribution
UPC	096359385165

### Dimensions

Dimensions	9.813 in x 7.313 in x 4.875 in
Height	4.875 in
Length	9.813 in
Minimum Mounting Spacing on Center (Sea Level) - Phase to Ground	4.2 in (106.68 mm)
Minimum Mounting Spacing on Center (Sea Level)- Phase to Phase	6.2 in (157.48 mm)
Stud Type	3/8-16
Weight	3 lb
Width	7.313 in

### Electrical Ratings

Creep and Leakage Distance	14.4 in (365 mm)
Current - Low Current Long Duration (LCLD) Test	250 A
Duty Cycle	10 kV
Frequency Rating	48-62 Hz
MCOV	8.4 kV
Maximum .5 Microsecond Discharge Volts @ Classifying Current	35.5 kV
Maximum Discharge Voltage	<ul style="list-style-type: none"> <li>• 25.6 kV @ 1.5 kA</li> <li>• 27.4 kV @ 3 kA</li> <li>• 29 kV @ 5 kA</li> <li>• 31.6 kV @ 10 kA</li> <li>• 35.9 kV @ 20 kA</li> <li>• 42.3 kV @ 40 kA</li> </ul>
Maximum Switching Surge Protective Level @ 500A	23.4 kV
Minimum Strike	5.7 in
Pressure Relief Capability- Symmetrical rms (kA)	20
Time - Low Current Long Duration (LCLD) Test	2000 $\mu$ s

### Logistics

Pallet Quantity	224
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### Product Assets

[Brochures - Ohio Brass Sets the Standards for Arresters \(EU1587\)](#)  
[Catalogs - Arresters IEEE & IEC Distribution Class \(CA01065E\\_Catalog 70\)](#)  
[Installation Manuals - Installation Instructions for PDV/PVR Arresters - Chinese \(17-5122C\)](#)  
[Installation Manuals - PDV-PVR Polymer Distribution Class Arrester Installation Instructions \(17-5122\)](#)  
[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 14001:2015 - Hubbell Power Systems Inc.](#)  
[ISO Certificates - ISO 9001:2015 - Hubbell Power Systems Inc. Effective 2020-2023, Multi-site \(English\)](#)  
[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](#)



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