

# HUBBELL

## Power Systems

### PDV-100 Optima Arrester (12.7 kV MCOV, 7324 Hardware)

By OHIO BRASS  
 Catalog # [2137137324](#)

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

#### General

|                                    |                           |
|------------------------------------|---------------------------|
| Application                        | Distribution              |
| Bracket Type                       | NEMA 4x5 Crossarm Bracket |
| Cantilever Bending Strength - Max. | 80 Nm                     |
| Color                              | Gray Housing              |
| EU RoHS Indicator                  | Contact Manufacturer      |
| Material                           | ESP™ Polymer Housing      |
| Mounting Position                  | Upright                   |
| Type                               | Distribution              |
| UPC                                | 096359413332              |

#### Dimensions

|   |                                 |
|---|---------------------------------|
| Dimensions  | 11.813 in x 7.313 in x 4.750 in |
| Height  | 4.75 in                         |
| Length  | 11.813 in                       |
| Minimum Mounting Spacing on Center (Sea Level) - Phase to | 6.5 in (165.1 mm)               |
| Minimum Mounting Spacing on Center (Sea Level)- Phase to  | 8.5 in (215.9 mm)               |
| Phase   |                                 |
| Stud Type   | 3/8-16                          |
| Weight  | 7 lb                            |
| Width   | 7.313 in                        |

#### Electrical Ratings

|   |                  |
|---|------------------|
| Creep and Leakage Distance                      | 25.2 in (640 mm) |
| Current - Low Current Long                      | 250 A            |
| Duration (LCLD) Test                            |                  |
| Duty Cycle                                      | 15 kV            |
| Frequency Rating                                | 48-62 Hz         |
| MCOV  | 12.7 kV          |
| Maximum .5 Microsecond                          | 53.8 kV          |
| Discharge Volts @ Classifying Current           |                  |
| Maximum Discharge Voltage                       | 38.7 kV @ 1.5 kA |
|   | 41.4 kV @ 3 kA   |
|   | 43.8 kV @ 5 kA   |
|   | 47.8 kV @ 10 kA  |
|   | 54.3 kV @ 20 kA  |
|   | 64 kV @ 40 kA    |
| Maximum Switching Surge Protective Level @ 500A | 34.5 kV          |
| Minimum Strike                                  | 8.8 in           |
| Pressure Relief Capability-Symmetrical rms (kA) | 20               |
| Time - Low Current Long                         | 2000 Qs          |
| Duration (LCLD) Test                            |                  |

#### Logistics

|                 |     |
|-----------------|-----|
| Pallet Quantity | 112 |
|-----------------|-----|

## 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

Sales Drawings - 2137137324 (Reference Only)

Video - Hubbell Power Systems Metal Oxide Varistor



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