

PVR Optima Surge Arrester (17 kV MCOV,  
7314 Hardware)

By Ohio Brass  
Catalog # [2216177314](#)



PVR Optima with birdcap and disconnecter

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

Configuration

|                   |         |
|-------------------|---------|
| Bracket Type      | None    |
| Mounting Position | Upright |

Current

|                                                              |                                                                                                                                                                          |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency Rating                                             | 48-62 Hz                                                                                                                                                                 |
| MCOV                                                         | 17 kV                                                                                                                                                                    |
| Maximum Switching Surge Protective Level @ 500A              | 40.9 kV                                                                                                                                                                  |
| Maximum .5 Microsecond Discharge Volts @ Classifying Current | 61.7 kV                                                                                                                                                                  |
| Withstand Voltage - 60 Hz Wet Impulse                        | 44.8                                                                                                                                                                     |
| Withstand Voltage - Lightning Impulse                        | 101.4                                                                                                                                                                    |
| Current - Low Current Long Duration (LCLD) Test              | 250 A                                                                                                                                                                    |
| Time - Low Current Long Duration (LCLD) Test                 | 2000 $\mu$ s                                                                                                                                                             |
| Creep and Leakage Distance                                   | 27.2 in (691 mm)                                                                                                                                                         |
| Maximum Discharge Voltage                                    | <ul style="list-style-type: none"><li>• 47.5 kV @ 1.5 kA</li><li>• 49.5 kV @ 3 kA</li><li>• 51.6 kV @ 5 kA</li><li>• 55.6 kV @ 10 kA</li><li>• 61.4 kV @ 20 kA</li></ul> |

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Duty Cycle                                      | • 71.2 kV @ 40 kA |
| Minimum Strike                                  | 21 kV             |
| Pressure Relief Capability-Symmetrical rms (kA) | 9.7 in            |
|                                                 | 20                |

Dimensions

|                                                                  |                               |
|------------------------------------------------------------------|-------------------------------|
| Length                                                           | 9.813 in                      |
| Stud Type                                                        | 3/8-16                        |
| Depth                                                            | 4 in                          |
| Weight                                                           | 2.8 lb.                       |
| Height                                                           | 12.34 in                      |
| Width                                                            | 8.75 in                       |
| Minimum Mounting Spacing on Center (Sea Level) - Phase to Ground | 7.7 in (195.58 mm)            |
| Minimum Mounting Spacing on Center (Sea Level)- Phase to Phase   | 9.7 in (246.38 mm)            |
| Dimensions                                                       | 9.813 in x 8.75 in x 12.34 in |

Force Related

|                                    |        |
|------------------------------------|--------|
| Cantilever Bending Strength - Max. | 135 Nm |
|------------------------------------|--------|

General

|          |                      |
|----------|----------------------|
| Color    | Gray Housing         |
| UPC      | 096359418467         |
| Type     | Distribution         |
| Material | ESP™ Polymer Housing |

Logistics

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

Product Assets

- [Catalog \[English\]](#)  
[Installation Manual \[English\]](#)  
[Installation Manual \[English\]](#)  
[Installation Manual \[French, English\]](#)  
[Installation Manual \[Spanish\]](#)