

MH4 Arrester (420 kV Rated, 12161 mm Creep Distance, AA Hardware)

By OHIO BRASS
Catalog # [MH4550GM420AA](#)

IEC Station High / Porcelain Housed Surge Arrester



*Representative Image

Features

- IEC porcelain Station High class arrester
- IEEE 693 High Performance Qualification
- High quality MOV discs made in Wadsworth, Ohio since 1978
- Arresters assembled in Aiken, South Carolina
- 100% routine tested

Application

Substation

General

Color	Gray
Material	Porcelain Housing
Mounting Position	Upright
Type	Class 4/Station High

Dimensions

Bolt Circle Diameter	254.00 mm
Diameter - Single Bolt Hole(s)	14 mm
Height	4549.9 mm
Minimum Mounting Spacing on Center (Sea Level) - Phase to Ground	97.8 in (2485 mm)
Minimum Mounting Spacing on Center (Sea Level)- Phase to Phase	111.3 in (2826 mm)

Electrical Ratings

Creep and Leakage Distance	478.8 in (12161 mm)
Duty Cycle	420 kV
Frequency Rating	48-62 Hz
MCOV	336 kV
Maximum Discharge Voltage	<ul style="list-style-type: none"> • 873 kV @ 1.5 kA • 908 kV @ 3 kA • 939 kV @ 5 kA • 986 kV @ 10 kA • 1056 kV @ 20 kA • 1162 kV @ 40 kA

Maximum Switching Surge Protective Level @ 1000A	843 kV
Maximum Switching Surge Protective Level @ 2000A	873 kV
Maximum Switching Surge Protective Level @ 500A	819.0 kV
Minimum Strike	3588.0 mm
Pressure Relief Capability-Symmetrical rms (kA)	63
Voltage - Line	550 kV
Withstand Voltage - 60 Hz Wet	1094 kV
Withstand Voltage - Lightning Impulse	1968 kV
Withstand Voltage - Switching Impulse	1806 kV

Conductor Related

Conductor Type	Cu/Al (AWG #4 - 500 MCM)
----------------	--------------------------

Certifications and Compliance

Industry Standard(s)	IEC
----------------------	-----

Product Assets

[Catalogs - Station Class Surge Arresters IEEE and IEC \(CA01082E_Catalog 30_0923_web\)](#)
[Installation Manuals - Porcelain Hollow Core Station Class Arrester Installation Instructions \(17-5092\)](#)
[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 \(TD01135E\)](#)
[Sales Drawings - MH4550GM420AA \(for reference only\)](#)



A proud member of the Hubbell Family.

©2024 Hubbell Incorporated. All rights reserved.
OB-MH4550GM420AA-SPEC-EN | REV 1/2024