



MacLean Power Systems
7801 Park Place Rd., York, SC 29745 USA (803)
628-2100

MPS Catalog Number

NPP 20 XG 27 S

Date 12/4/2023

Revision: A

BIL Rating: 350 kV

TR216P

End Fittings

Top End Fitting: 3 Inch Bolt Circle (Hot Dip Galvanized Cast Iron)

Bottom End Fitting: 3 Inch Bolt Circle (Hot Dip Galvanized Cast Iron)

Material

Number of Sheds: 27

Rod Diameter: 1.75 inches

Weight Estimate: 17 lbs 7 kg

Packaging: 3 Per Crate

Dimensional Values

Height (H): 30.0 in 762 mm

Shed Diameter 1: 4.1 in 105 mm

Shed Diameter 2: 4.7 in 120 mm

Shed Spacing (S): 2.0 in 51 mm

Dry Arc Distance: 28.1 in 715 mm

Leakage Distance: 77.0 in 1955 mm

Electrical Values

Low Freq. dry Flashover: 278 kV Min. Withstand 261 kV

Low Freq. Wet Flashover: 255 kV Min. Withstand 197 kV

Positive CIFO: 474 kV Min. Withstand 424 kV

Negative CIFO: 568 kV Min. Withstand 459 kV

Max RIV @ 1 MHz. Low-freq. test voltage 44kV 200 μV

Mechanical Values

Specified Cant. Load (SCL): 1,500 lbs 6.7 kN

Max. Design Cant. Load (MDCL): 750 lbs 3.3 kN

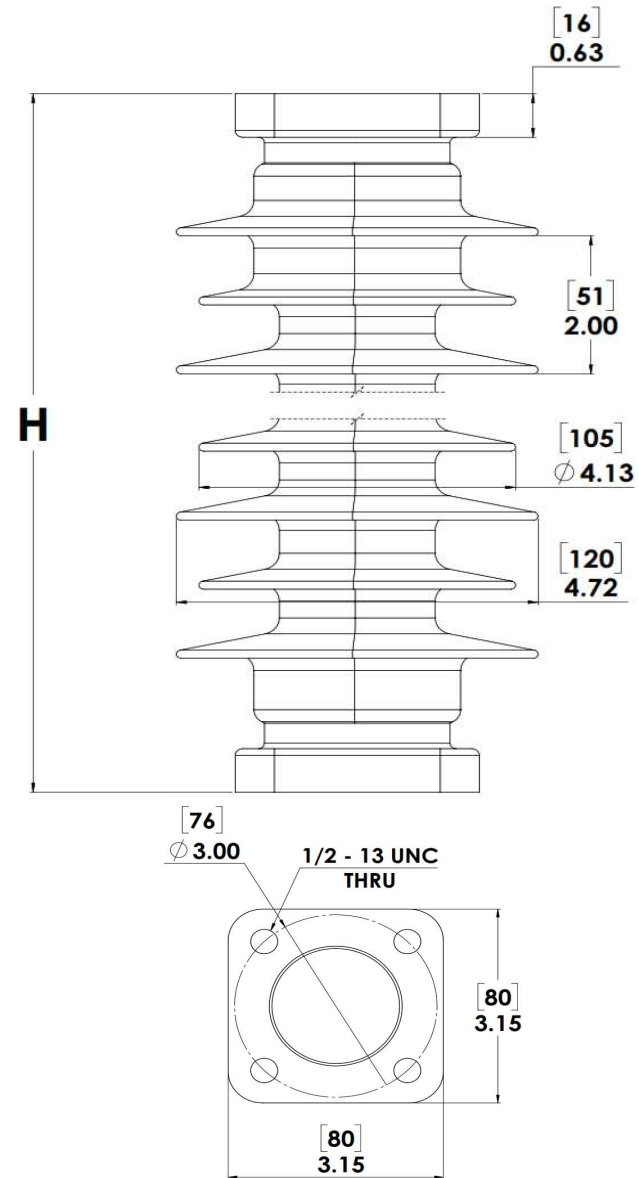
Specified Tensile Load (STL): 16,000 lbs 71 kN

Compression Strength 16,000 lbs 71 kN

Deflection at 600 lbs. (2.7KN) 1.5 in 38 mm

Torsional Strength 6,000 In-lbs 678 m.N

Deflection values based on working load of porcelain



This drawing contains confidential information that is the property of MacLean Power, L.L.C. ("MacLean"). Use of MacLean's confidential information without MacLean's express written consent is strictly prohibited and may expose you to legal liability. If you believe that you received this material in error, please destroy it or return it to "MacLean Power, L.L.C., 7801 Park Place Rd., York, South Carolina 29745, USA."

Dimension: inches [millimeters]
NOTE: Drawing not actual depiction of insulator appearance

Silicone Rubber, Sheath, & Dimensions comply with ANSI C29.19 and CSA C156.2.