



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

MPS Catalog Number

**NPP 20 XG 05 S**

Date 12/4/2023

Revision: A

BIL Rating: 95 kV

TR202P

**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: 5

Rod Diameter: 1.75 inches

Weight Estimate: 6 lbs 3 kg

Packaging: 3 Per Crate

**Dimensional Values**

Height (H): 7.5 in 191 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: 6.1 in 154 mm

Leakage Distance: 12.7 in 322 mm

**Electrical Values**

Low Freq. dry Flashover: 75 kV Min. Withstand 70 kV

Low Freq. Wet Flashover: 56 kV Min. Withstand 38 kV

Positive CIFO: 129 kV Min. Withstand 103 kV

Negative CIFO: 171 kV Min. Withstand 134 kV

Max RIV @ 1 MHz. Low-freq. test voltage 5kV 50 μV

**Mechanical Values**

Specified Cant. Load (SCL): 2,800 lbs 12.5 kN

Max. Design Cant. Load (MDCL): 1,400 lbs 6.2 kN

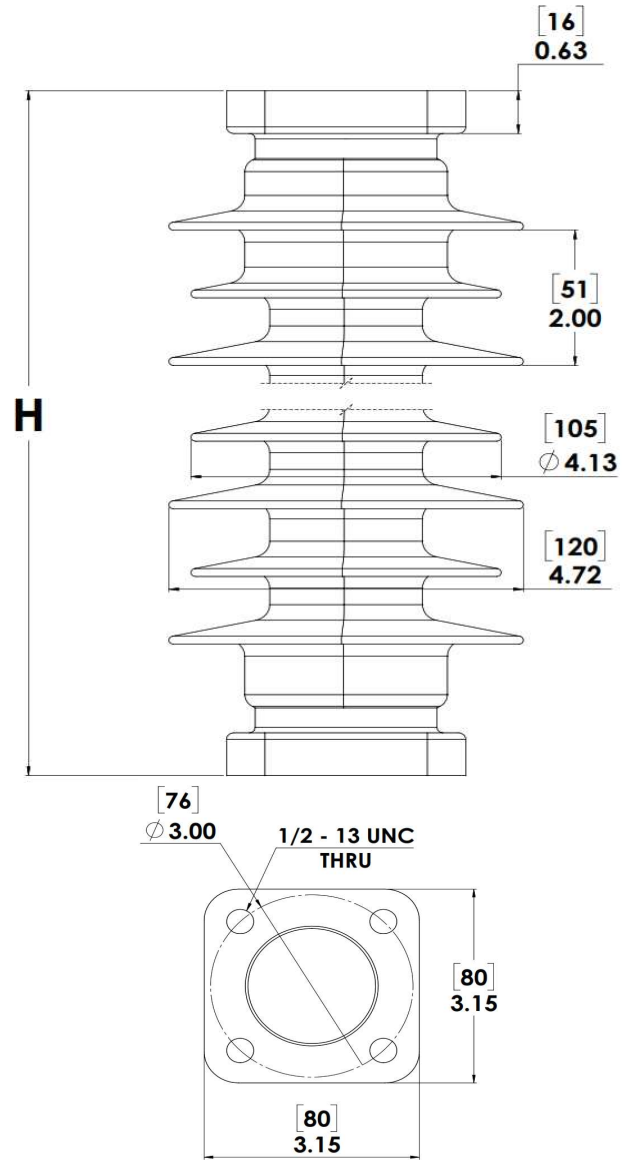
Specified Tensile Load (STL): 7,000 lbs 31 kN

Compression Strength 7,000 lbs 31 kN

Deflection at 800 lbs. (3.6KN) .1 in 1 mm

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

Deflection values based on working load of porcelain



Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance

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

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