



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

MPS Catalog Number

NPP 20 XG 11 S

Date 12/4/2023

Revision: A

BIL Rating: 150 kV

TR208P

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: 11

Rod Diameter: 1.75 inches

Weight Estimate: 9 lbs 4 kg

Packaging: 3 Per Crate

Dimensional Values

Height (H): 14.0 in 356 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: 12.9 in 327 mm

Leakage Distance: 32.2 in 817 mm

Electrical Values

Low Freq. dry Flashover: 138 kV Min. Withstand 130 kV

Low Freq. Wet Flashover: 119 kV Min. Withstand 88 kV

Positive CIFO: 234 kV Min. Withstand 203 kV

Negative CIFO: 303 kV Min. Withstand 235 kV

Max RIV @ 1 MHz. Low-freq. test voltage 15kV 100 μV

Mechanical Values

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

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

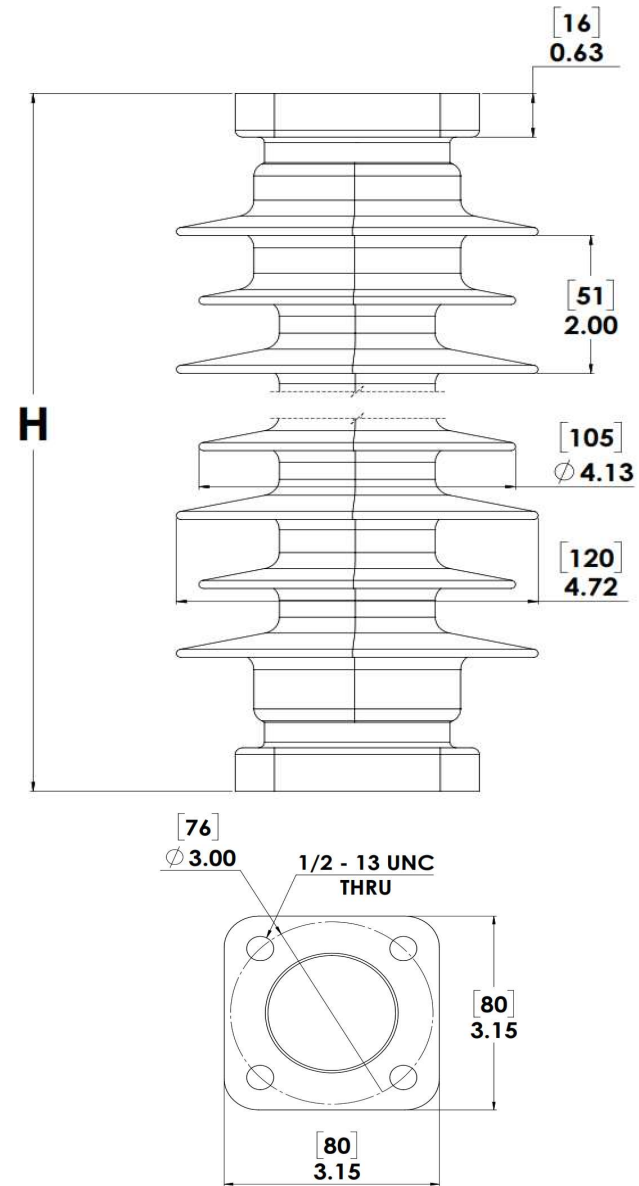
Specified Tensile Load (STL): 10,000 lbs 44 kN

Compression Strength 10,000 lbs 44 kN

Deflection at 800 lbs. (3.6KN) .1 in 3 mm

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

Deflection values based on working load of porcelain



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

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