



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

MPS Catalog Number

NPP 20 XG 19 S

Date 12/4/2023

Revision: A

BIL Rating: 250 kV

TR214P

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: 19

Rod Diameter: 1.75 inches

Weight Estimate: 12 lbs 5 kg

Packaging: 3 Per Crate

Dimensional Values

Height (H): 22.0 in 559 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: 20.9 in 531 mm

Leakage Distance: 55.6 in 1411 mm

Electrical Values

Low Freq. dry Flashover: 212 kV Min. Withstand 199 kV

Low Freq. Wet Flashover: 191 kV Min. Withstand 146 kV

Positive CIFO: 359 kV Min. Withstand 320 kV

Negative CIFO: 448 kV Min. Withstand 353 kV

Max RIV @ 1 MHz. Low-freq. test voltage 30kV 200 μV

Mechanical Values

Specified Cant. Load (SCL): 2,000 lbs 8.9 kN

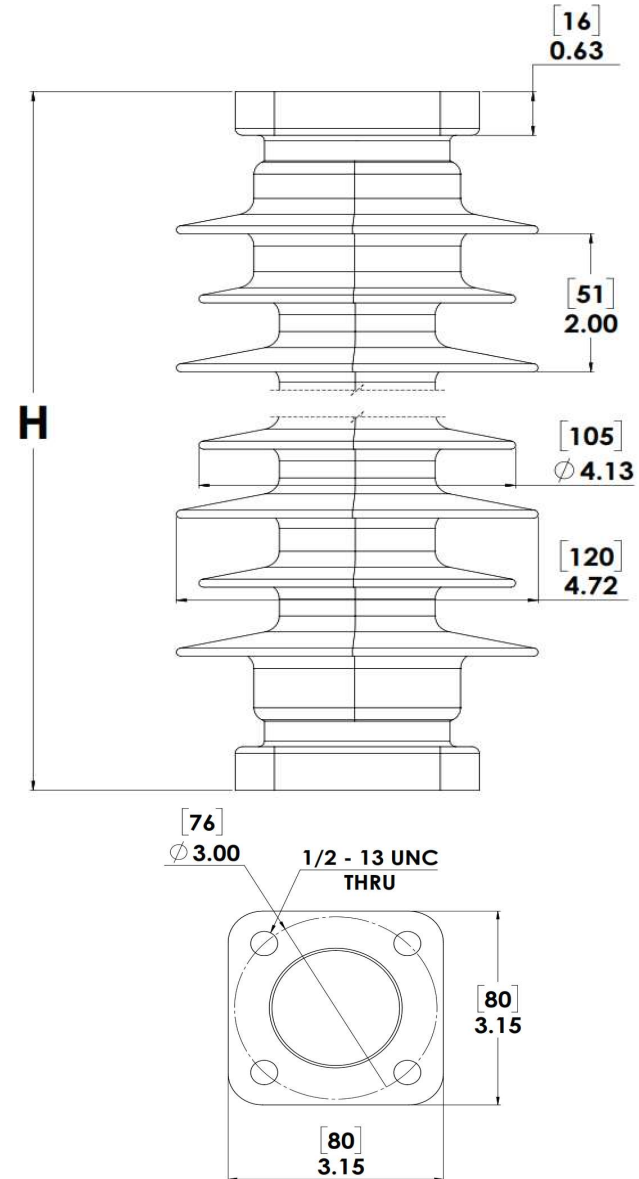
Max. Design Cant. Load (MDCL): 1,000 lbs 4.4 kN

Specified Tensile Load (STL): 17,500 lbs 78 kN

Compression Strength 17,500 lbs 78 kN

Deflection at 800 lbs. (3.6KN) .7 in 18 mm

Torsional Strength 14,000 In-lbs 1,582 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.