

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

## Braced Post Insulator Assembly

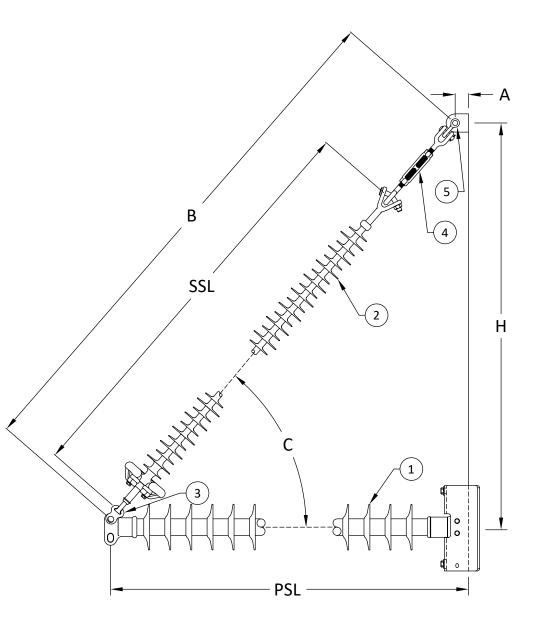
## B2911093T12084AA

| 1) H2 91 10 082 AX SS 032         | [1] |
|-----------------------------------|-----|
| 2) S1 40 80 078 MA AL 051         | [1] |
| 3) Socket/Y-Clevis (SYC-56)       | [1] |
| 4) Turnbuckle (G-227-NBC-3/4x12C) | [1] |
| 5) Shackle (ASH-55-BC)            | [1] |

## ASSEMBLY DIMENSIONAL VALUES

| Post Section Length (PSL)                                      | 93.1 in   | 2,365 mm   |  |  |  |
|--|-----------|------------|--|--|--|
| Suspension Section Length (SSL)                                | 89.9 in   | 2,283 mm   |  |  |  |
| Height of Assembly (H)   | 84.0 in   | 2,134 mm   |  |  |  |
| Length of Brace (B)  | 123.0 in  | 3,124 mm   |  |  |  |
| Upper Pole Connection Offset (A)*                              | 2.0 in    | 51 mm      |  |  |  |
| Angle Between Insulators (C)                                   |           | 42 Degrees |  |  |  |
| Dry Arc Distance   | 78.1 in   | 1,984 mm   |  |  |  |
| Leakage Distance   | 226.0 in  | 5,740 mm   |  |  |  |
| *This connection bracket to be supplied by customer            |           |            |  |  |  |
| ASSEMBLY ELECTRICAL VALUES*                                    |           |            |  |  |  |
| 60 Hz Dry F.O. (Min. Withstand)                                | 716 kV    | (672) kV   |  |  |  |
| 60 Hz Wet F.O. (Min. Withstand)                                | 651 kV    | (527) kV   |  |  |  |
| CIFO+ (Min. Withstand)   | 1,257 kV  | (1,107) kV |  |  |  |
| CIFO- (Min. Withstand)   | 1,284 kV  | (1,158) kV |  |  |  |
| *Values shown are based on minimum electicals for the assembly |           |            |  |  |  |
| ASSEMBLY MECHANICAL VALUES                                     |           |            |  |  |  |
| Maximum Working Vertical Load                                  | 8,405 lbs | 37.4 kN    |  |  |  |

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."





MPS Catalog Number:

Date:

End Fittings

Tower End Fitting:

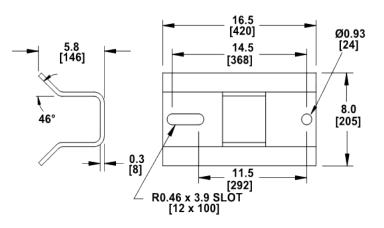
Line End Fitting:

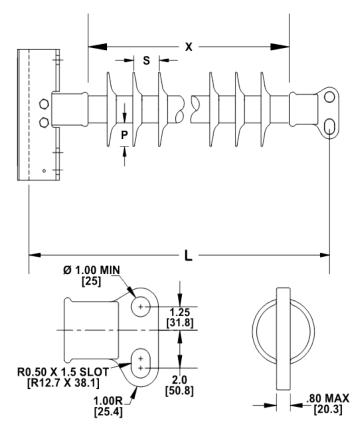
7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

## H2 91 10 082 AX SS 032 05/03/2022

Gain / 0 deg / Steel Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron

| Corona Ring (Tower):                             |          |           |       |      |
|--|----------|-----------|-------|------|
|  |          |           |       | None |
| Corona Ring (Line):                              |          |           |       | None |
| Corona Rings are recommended for applications of | 230 kV a | and above |       |      |
| Mounting Angle:                                  |          |           | 0     | deg  |
| Number of Sheds:                                 |          |           | 32    |      |
| Rod Diameter:                                    |          |           | 2.5   | in   |
| Weight Estimate:                                 | 96.1     | lbs       | 44    | kg   |
| Dimensional Values                               |          |           |       |      |
| Section Length (L):                              | 93.1     | in        | 2,365 | mm   |
| Rubber Length (X):                               | 82       | in        | 2,083 | mm   |
| Shed spacing (S):                                | 2.5      | in        | 64    | mm   |
| Shed Projection (P):                             | 2.4      | in        | 61    | mm   |
| Dry Arc Distance:                                | 84.9     | in        | 2,156 | mm   |
| Leakage Distance:                                | 226      | in        | 5,740 | mm   |
| Electricals Values                               |          |           |       |      |
| 60 Hz dry Flashover (Min. Withstand):            | 773      | kV        | 726   | kV   |
| 60 Hz Wet Flashover (Min. Withstand):            | 700      | kV        | 569   | kV   |
| CIFO Positive (Min. Withstand):                  | 1360     | kV        | 1196  | kV   |
| CIFO Negative (Min. Withstand):                  | 1382     | kV        | 1250  | kV   |
| Mechanical Values                                |          |           |       |      |
| Max. Design Cant. Load (MDCL):                   | 946      | lbs       | 4.2   | kN   |
| Specified Cant. Load (SCL):                      | 1,892    | lbs       | 8.4   | kN   |
| Specified Tensile Load (STL):                    | 15,000   | lbs       | 66.7  | kN   |





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 and sheds complies with applicable ANSI and IEC standards.

Prepared By: Stephen Lucci

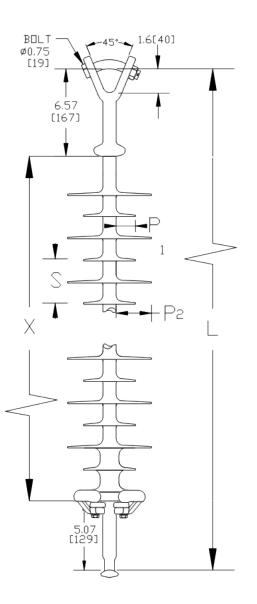


MPS Catalog Number

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

**S1 40 80 078 MA AL 051** Date: 04/11/2022

**End Fittings** Y-Clevis / Forged Steel **Tower End Fitting:** Ball / Forged Steel Line End Fitting: / (ANSI 52-5) Material Corona Ring (Line): 8" Corona Ring Corona Rings are recommended for applications of 230 kV and above Number of Sheds: 25 large 26 standard Rod Diameter: 16 mm Weight Estimate: 17.1 lbs 8 kg Dimensional Values Section Length (L): 89.9 in 2,283 mm 78 in Rubber Length (X): 1,981 mm Standard Shed Height (P1): 1.5 in 38 mm Large Shed Height (P2): 2 in 51 mm Projection Ration (S/P): -1.5 Shed Spacing (S): 3 in 76 mm Dry Arc Distance: 78.1 in 1,984 mm 231.6 in Leakage Distance: 5,883 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 758 kV 686 kV 60 Hz Wet Flashover (Min. Withstand): 651 kV 567 kV CIFO Positive (Min. Withstand): 1,264 kV 1,125 kV CIFO Negative (Min. Withstand): 1,323 kV 1,183 kV **Mechanical Values** Specified Mech. Load (SML): 25,000 lbs 111.2 kN Routine Test Load (RTL): 12.500 lbs 55.6 kN



Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

Silicone rubber sheath and sheds complies with applicable ANSI and IEC standards.

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."

