

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

Braced Post Insulator Assembly B2911069T12075AA

| 1) H2 91 10 058 AX SS 022 | [1] |
|-----------------------------------|-----|
| 2) S1 40 80 054 MA AL 035 | [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) | 69.1 in | 1,755 mm |
|-----------------------------------|----------|------------|
| Suspension Section Length (SSL) | 66.0 in | 1,676 mm |
| Height of Assembly (H) | 75.0 in | 1,905 mm |
| Length of Brace (B) | 99.7 in | 2,532 mm |
| Upper Pole Connection Offset (A)* | 2.0 in | 51 mm |
| Angle Between Insulators (C) | | 47 Degrees |
| Dry Arc Distance | 54.1 in | 1,374 mm |
| Leakage Distance | 157.0 in | 3,988 mm |

^{*}This connection bracket to be supplied by customer

ASSEMBLY ELECTRICAL VALUES*

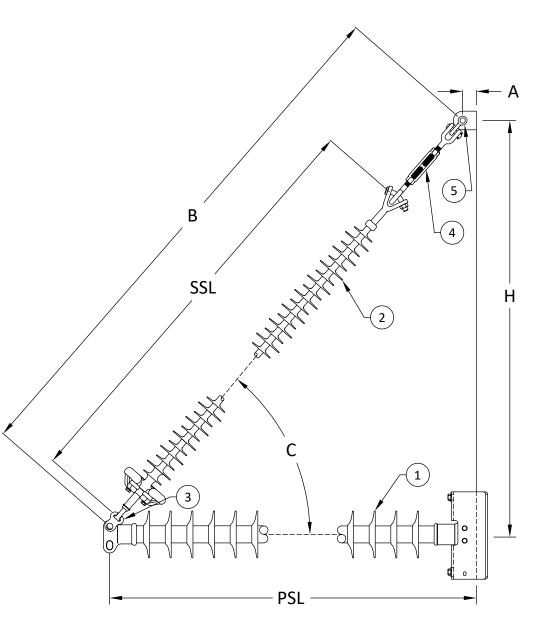
| 60 Hz Dry F.O. (Min. Withstand) | 509 kV | (478) kV |
|---------------------------------|--------|----------|
| 60 Hz Wet F.O. (Min. Withstand) | 470 kV | (374) kV |
| CIFO+ (Min. Withstand) | 885 kV | (786) kV |
| CIFO- (Min. Withstand) | 931 kV | (828) kV |

^{*}Values shown are based on minimum electicals for the assembly

ASSEMBLY MECHANICAL VALUES

| | Maximum Working | ı Vertical Load | 9.245 lbs | 41.1 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."

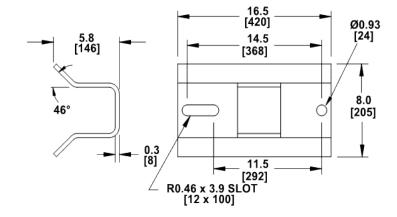


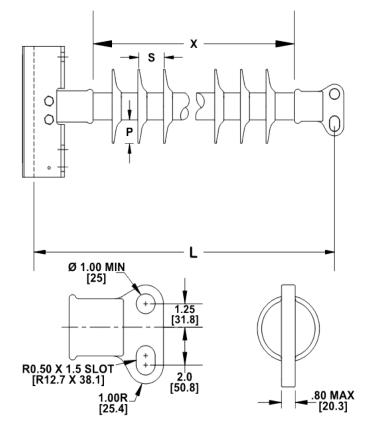


7801 Park Place Rd. York, SC 29745 USA (803) 628-2100

H2 91 10 058 AX SS 022 MPS Catalog Number: Date: 04/20/2022 **End Fittings** Gain / O deg / Steel Tower End Fitting: Anchor / Ductile Iron 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: **Material** Corona Ring (Tower): None Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg 22 Number of Sheds: 2.5 in Rod Diameter: 78.7 lbs Weight Estimate: 36 kg **Dimensional Values** Section Length (L): 69.1 in 1,755 mm 58 in Rubber Length (X): 1,473 mm Shed spacing (S): 2.5 in 64 mm 2.4 in Shed Projection (P): 61 mm 60.9 in Dry Arc Distance: 1,547 mm 157 in Leakage Distance: 3,988 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 568 kV 533 kV 523 kV 60 Hz Wet Flashover (Min. Withstand): 418 kV CIFO Positive (Min. Withstand): 992 kV 878 kV CIFO Negative (Min. Withstand): 1032 kV 923 kV **Mechanical Values** 5.7 kN Max. Design Cant. Load (MDCL): 1.287 lbs Specified Cant. Load (SCL): 2,574 lbs 11.4 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.

Notes:



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

MPS Catalog Number

S1 40 80 054 MA AL 035

Date: 04/11/2022

| | | Date. | 0-7, 11, | 2022 |
|---|--------------|------------|----------|-------|
| End Fittings | | | | |
| Tower End Fitting: | ١ | /-Clevis / | Forged | Steel |
| Line End Fitting: | | • | Forged | |
| | | | / (ANSI | 52-5) |
| Material | | | | |
| Corona Ring (Line): | | 8' | ' Corona | Ring |
| Corona Rings are recommended for applications | of 230 kV ar | nd above | | |
| Number of Sheds: | 17 large | | 18 star | ndard |
| Rod Diameter: | | | 16 | mm |
| Weight Estimate: | 13.8 | lbs | 6 | kg |
| Dimensional Values | | | | |
| Section Length (L): | 66 | in | 1,676 | mm |
| Rubber Length (X): | 54 | in | 1,372 | 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: | 54.1 | in | 1,374 | mm |
| Leakage Distance: | 158.4 | in | 4,023 | mm |
| Electricals Values | | | | |
| 60 Hz dry Flashover (Min. Withstand): | 529 | kV | 488 | kV |
| 60 Hz Wet Flashover (Min. Withstand): | 470 | kV | 409 | kV |
| CIFO Positive (Min. Withstand): | 902 | kV | 787 | kV |
| CIFO Negative (Min. Withstand): | 953 | kV | 838 | kV |
| Mechanical Values | | | | |
| Specified Mech. Load (SML): | 25,000 | lbs | 111.2 | kN |
| Routine Test Load (RTL): | 12,500 | lbs | 55.6 | 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."

[19] 6.57 [167] 5.07 [129]

Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes: Prepared By: Stephen Lucci

