

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

Braced Post Insulator Assembly B2911050T12055MX

| 1) H2 91 10 039 MX SS 020 | [1] |
|----------------------------------|-----|
| 2) S1 40 80 037 MX AL 023 | [1] |
| 3) Socket/Y-Clevis (SYC-56) | [1] |
| 4) Turnbuckle (G-227-NBC-3/4x6C) | [1] |
| 5) Shackle (ASH-55-BC) | [1] |

ASSEMBLY DIMENSIONAL VALUES

| Post Section Length (PSL) | 50.0 in | 1,270 mm |
|-----------------------------------|----------|------------|
| Suspension Section Length (SSL) | 48.2 in | 1,224 mm |
| Height of Assembly (H) | 55.0 in | 1,397 mm |
| Length of Brace (B) | 72.1 in | 1,831 mm |
| Upper Pole Connection Offset (A)* | 2.0 in | 51 mm |
| Angle Between Insulators (C) | | 48 Degrees |
| Dry Arc Distance | 38.8 in | 986 mm |
| Leakage Distance | 103.5 in | 2,629 mm |

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

ASSEMBLY ELECTRICAL VALUES*

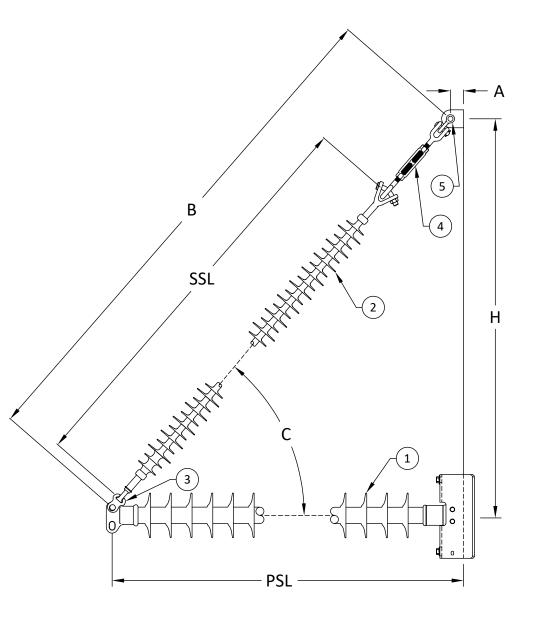
| 60 Hz Dry F.O. (Min. Withstand) | 374 kV | (351) kV |
|---------------------------------|--------|----------|
| 60 Hz Wet F.O. (Min. Withstand) | 346 kV | (271) kV |
| CIFO+ (Min. Withstand) | 643 kV | (574) kV |
| CIFO- (Min. Withstand) | 727 kV | (612) kV |

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

ASSEMBLY MECHANICAL VALUES

| Maximum Working Vertical Load | 9.323 lbs | 41.5 kN |
|-------------------------------|-----------|---------|
| | | |

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MPS Catalog Number

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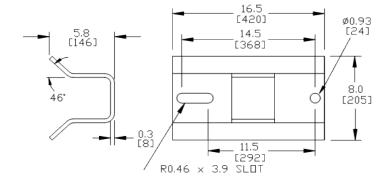
Date: 04/13/2022

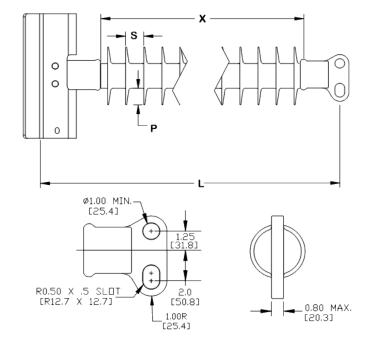
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 20 Rod Diameter: 2.5 in Weight Estimate: 55.7 lbs 25 kg **Dimensional Values** Section Length (L): 1,270 mm 50 in Rubber Length (X): 39 in 991 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 41.2 in Dry Arc Distance: 1,046 mm Leakage Distance: 106.1 in 2,696 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 395 kV 371 kV 287 kV 60 Hz Wet Flashover (Min. Withstand): 366 kV CIFO Positive (Min. Withstand): 680 kV 608 kV CIFO Negative (Min. Withstand): 759 kV 646 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.871 lbs 8.3 kN Specified Cant. Load (SCL): 3,742 lbs 16.6 kN

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15,000 lbs

66.7 kN





Dimension: inches [millimeters]

NOTE: Drawing not actual depiction of insulator appearance.

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

Notes:

Specified Tensile Load (STL):

Prepared By: Stephen Lucci



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|--|-------------------------|----------|---------|-------|
| End Fittings | | | | |
| Tower End Fitting: | Y-Clevis / Forged Steel | | | |
| Line End Fitting: | Ball / Forged Steel | | | |
| | | | / (ANSI | 52-5) |
| Material | | | | |
| Corona Ring (Line): | | | 1 | None |
| Corona Rings are recommended for applications of | of 230 kV ar | nd above | ! | |
| Number of Sheds: | 11 large | | 12 star | dard |
| Rod Diameter: | | | 16 | mm |
| Weight Estimate: | 9 | lbs | 4 | kg |
| Dimensional Values | | | | |
| Section Length (L): | 48.2 | in | 1,224 | mm |
| Rubber Length (X): | 37 | in | 940 | 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: | 38.8 | in | 986 | mm |
| Leakage Distance: | 103.5 | in | 2,629 | mm |
| Electricals Values | | | | |
| 60 Hz dry Flashover (Min. Withstand): | 384 | kV | 356 | kV |
| 60 Hz Wet Flashover (Min. Withstand): | 346 | kV | 301 | kV |
| CIFO Positive (Min. Withstand): | 662 | kV | 572 | kV |
| CIFO Negative (Min. Withstand): | 705 | kV | 617 | kV |
| Mechanical Values | | | | |
| Specified Mech. Load (SML): | 25,000 | lbs | 111.2 | kN |
| Routine Test Load (RTL): | 12,500 | lbs | 55.6 | kN |

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Ø0.75 [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

