

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

Braced Post Insulator Assembly B2911038T12061MX

| 1) H2 91 10 027 MX SS 014 | [1] |
|-----------------------------------|-----|
| 2) S1 40 80 025 MX AL 015 | [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) | 38.0 in | 965 mm |
|-----------------------------------|---------|------------|
| Suspension Section Length (SSL) | 36.2 in | 919 mm |
| Height of Assembly (H) | 61.0 in | 1,549 mm |
| Length of Brace (B) | 69.8 in | 1,773 mm |
| Upper Pole Connection Offset (A)* | 2.0 in | 51 mm |
| Angle Between Insulators (C) | | 58 Degrees |
| Dry Arc Distance | 26.8 in | 681 mm |
| Leakage Distance | 66.9 in | 1,699 mm |

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

ASSEMBLY ELECTRICAL VALUES*

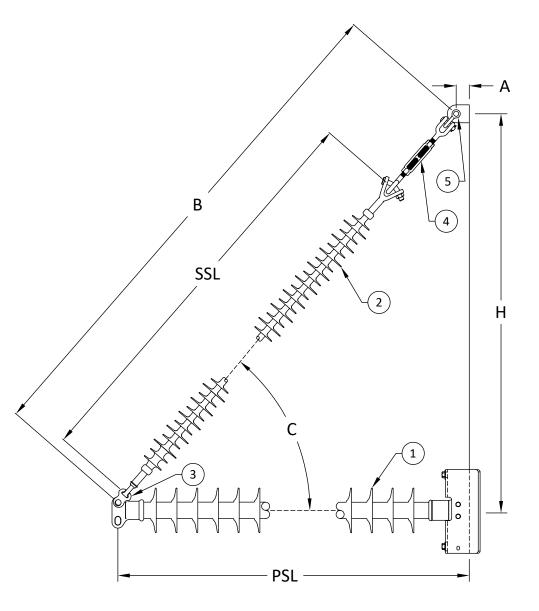
| 60 Hz Dry F.O. (Min. Withstand) | 266 kV | (249) kV |
|---------------------------------|--------|----------|
| 60 Hz Wet F.O. (Min. Withstand) | 243 kV | (187) kV |
| CIFO+ (Min. Withstand) | 452 kV | (404) kV |
| CIFO- (Min. Withstand) | 547 kV | (439) kV |

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

ASSEMBLY MECHANICAL VALUES

Maximum Working Vertical Load 10,707 lbs 47.6 kN

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MPS Catalog Number

H2 91 10 027 MX SS 014

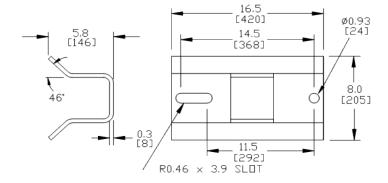
Date: 04/13/2022

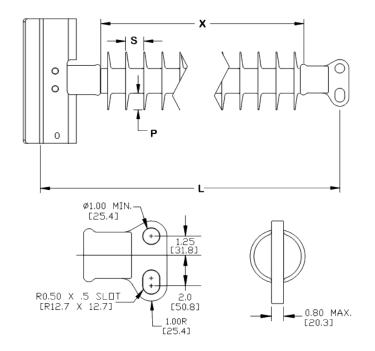
End Fittings Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 14 Rod Diameter: 2.5 in Weight Estimate: 48.9 lbs 22 kg **Dimensional Values** Section Length (L): 965 mm 38 in Rubber Length (X): 27 in 686 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm 29.5 in 749 mm Dry Arc Distance: Leakage Distance: 74.4 in 1,889 mm **Electricals Values** 60 Hz dry Flashover (Min. Withstand): 290 kV 272 kV 60 Hz Wet Flashover (Min. Withstand): 266 kV 206 kV CIFO Positive (Min. Withstand): 495 kV 443 kV CIFO Negative (Min. Withstand): 589 kV 478 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 2.573 lbs 11.4 kN Specified Cant. Load (SCL): 5,146 lbs 22.9 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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Routine Test Load (RTL):

S1 40 80 025 MX AL 015

Date: 03/22/2022

| | | | ,, | |
|--|--------------|------------|-----------|-------|
| End Fittings | | | | |
| Tower End Fitting: | ١ | '-Clevis / | Forged | Steel |
| Line End Fitting: | | Ball / | Forged | Steel |
| | | | / (ANSI ! | 52-5) |
| Material | | | | |
| Corona Ring (Line): | | | ı | None |
| Corona Rings are recommended for applications of | of 230 kV ar | nd above | | |
| Number of Sheds: | 7 large | | 8 stan | ndard |
| Rod Diameter: | | | 16 | mm |
| Weight Estimate: | 7.3 | lbs | 3 | kg |
| Dimensional Values | | | | |
| Section Length (L): | 36.2 | in | 919 | mm |
| Rubber Length (X): | 25 | in | 635 | 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: | 26.8 | in | 681 | mm |
| Leakage Distance: | 66.9 | in | 1,699 | mm |
| Electricals Values | | | | |
| 60 Hz dry Flashover (Min. Withstand): | 269 | kV | 251 | kV |
| 60 Hz Wet Flashover (Min. Withstand): | 243 | kV | 212 | kV |
| CIFO Positive (Min. Withstand): | 468 | kV | 403 | kV |
| CIFO Negative (Min. Withstand): | 503 | kV | 444 | kV |
| Mechanical Values | | | | |
| Specified Mech. Load (SML): | 25,000 | lbs | 111.2 | kN |
| | | | | |

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[19] 6.57 [167]

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

12,500 lbs

55.6 kN

