

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

# Braced Post Insulator Assembly B2911053T12072MA

1) H2 91 10 043 MX SS 022	[1]
2) S1 40 80 042 MA AL 027	[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)	54.0 in	1,372 mm
Suspension Section Length (SSL)	54.0 in	1,372 mm
Height of Assembly (H)	72.0 in	1,829 mm
Length of Brace (B)	87.8 in	2,230 mm
Upper Pole Connection Offset (A)*	2.0 in	51 mm
Angle Between Insulators (C)		53 Degrees
Dry Arc Distance	40.3 in	1,024 mm
Leakage Distance	116.7 in	2,964 mm

<sup>\*</sup>This connection bracket to be supplied by customer

## ASSEMBLY ELECTRICAL VALUES\*

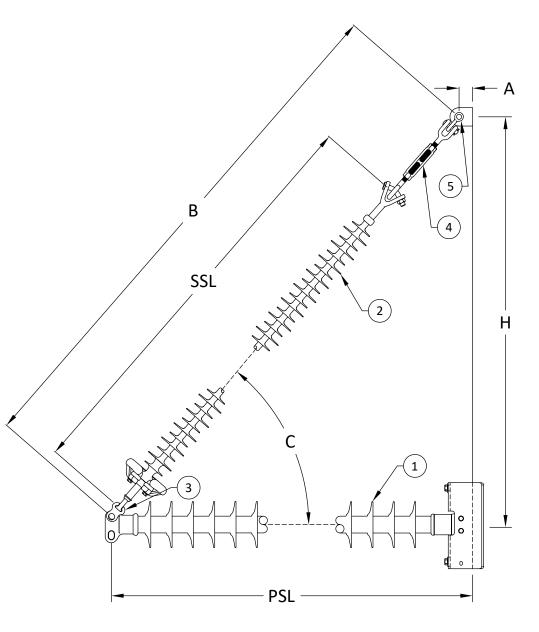
60 Hz Dry F.O. (Min. Withstand)	387 kV	(363) kV
60 Hz Wet F.O. (Min. Withstand)	358 kV	(281) kV
CIFO+ (Min. Withstand)	666 kV	(595) kV
CIFO- (Min. Withstand)	747 kV	(633) kV

<sup>\*</sup>Values shown are based on minimum electicals for the assembly

### ASSEMBLY MECHANICAL VALUES

Maximum Working	Vertical Load	10,072 lbs	44.8 kN

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MPS Catalog Number

## H2 91 10 043 MX SS 022

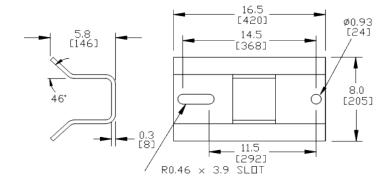
Date: 04/13/2022

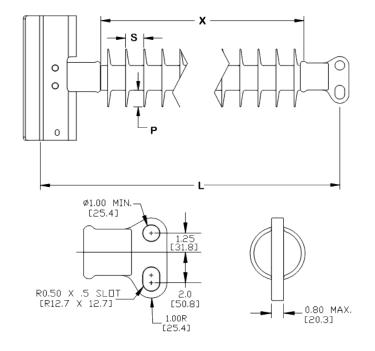
**End Fittings** Gain / O deg / Steel **Tower End Fitting:** 2 HL Drop Tongue / Galv. Ductile Iron Line End Fitting: Material Corona Ring (Line): None Corona Rings are recommended for applications of 230 kV and above Mounting Angle: 0 deg Number of Sheds: 22 Rod Diameter: 2.5 in Weight Estimate: 58 lbs 26 kg **Dimensional Values** Section Length (L): 1,372 mm 54 in Rubber Length (X): 43 in 1,092 mm Shed spacing (S): 1.95 in 50 mm Shed Projection (P): 1.86 in 47 mm Dry Arc Distance: 45.1 in 1,145 mm Leakage Distance: 116.7 in 2,965 mm **Electricals Values** 403 kV 60 Hz dry Flashover (Min. Withstand): 429 kV 60 Hz Wet Flashover (Min. Withstand): 398 kV 313 kV CIFO Positive (Min. Withstand): 742 kV 662 kV CIFO Negative (Min. Withstand): 809 kV 701 kV **Mechanical Values** Max. Design Cant. Load (MDCL): 1.706 lbs 7.6 kN Specified Cant. Load (SCL): 3,412 lbs 15.2 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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S1 40 80 042 MA AL 027

Date: 04/01/2022

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End Fittings			
Tower End Fitting:	Υ	-Clevis	/ Forged Steel
Line End Fitting:		Ball	/ Forged Steel
			/ (ANSI 52-5)
Material			
Corona Ring (Line):		8	B" Corona Ring
Corona Rings are recommended for applica-	ations of 230 kV an	d above	2
Number of Sheds:	13 large		14 standard
Rod Diameter:			16 mm
Weight Estimate:	12.1	lbs	6 kg
Dimensional Valu	ies		
Section Length (L):	54	in	1,372 mm
Rubber Length (X):	42	in	1,067 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:	42.2	in	1,072 mm
Leakage Distance:	121.8	in	3,094 mm
Electricals Value	es		
60 Hz dry Flashover (Min. Withstand):	416	kV	386 kV
60 Hz Wet Flashover (Min. Withstand):	374	kV	325 kV
CIFO Positive (Min. Withstand):	716	kV	620 kV
CIFO Negative (Min. Withstand):	761	kV	666 kV
Mechanical Valu	es		
Specified Mech. Load (SML):	25,000	lbs	111.2 kN
Routine Test Load (RTL):	12,500	lbs	55.6 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

